

CORNELL UNIVERSITY
ANNOUNCEMENTS

AUGUST 21, 1962

MEDICAL COLLEGE
1962—1963

CORNELL UNIVERSITY ANNOUNCEMENTS

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Announcements of the College of Engineering may also be obtained. Please specify if the information is for a prospective student.

Undergraduate preparation in a recognized college or university is required for admission to the following Cornell divisions, for which Announcements are available: *Graduate School of Business and Public Administration, Law School, Medical College, Cornell University-New York Hospital School of Nursing, Graduate School of Nutrition, New York State Veterinary College, Graduate School.*

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CORNELL UNIVERSITY ANNOUNCEMENTS

EDMUND EZRA DAY HALL, ITHACA, NEW YORK

CORNELL UNIVERSITY ANNOUNCEMENTS. Volume 54. Number 4. August 21, 1962. Published twenty times a year: twice in March, April, May, June, July, August, October, December; three times in September; once in November; no issues in January or February. Published by Cornell University at Edmund Ezra Day Hall, 18 East Avenue, Ithaca, New York. Second-class postage paid at Ithaca, New York.

CORNELL UNIVERSITY

THE MEDICAL COLLEGE

1962-1963

**1300 York Avenue
New York 21, New York
Telephone: Trafalgar 9-9000**

1962

July

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CALENDAR

1962

June 18	Registration, instruction begins for fourth year, first division
July 4	Independence Day, holiday
Aug. 10	Second division begins for fourth year
Sept. 3	Labor Day, holiday
Sept. 6 & 7	Examinations for conditioned students
Sept. 7 & 10	Registration for first, second, and third years
Sept. 10	Opening Exercises, 3:30 p.m.
Sept. 11	Instruction begins for first, second, and third years
Oct. 3	Third division begins for fourth year
Oct. 12	Columbus Day, holiday
Nov. 22	Thanksgiving Day, holiday
Nov. 27	End of fall term for first and second years
Nov. 27	Fourth division begins for fourth year
Nov. 28-Dec. 1	Examinations for first and second years
Nov. 29	End of fall term for third year
Nov. 30	Beginning of winter term for third year
Dec. 3	Beginning of winter term for first and second years
Dec. 19	Instruction ends 1 p.m., Christmas recess begins
Dec. 25	Christmas Day, holiday

1963

Jan. 1	New Year's Day, holiday
Jan. 3	Christmas recess ends, instruction begins
Feb. 1	Fifth division begins for fourth year
Feb. 22	Washington's Birthday, holiday
Mar. 2	Winter term ends 1 p.m.
Mar. 3-10	Spring recess for third and fourth years
Mar. 4-9	Examinations, first and second years
Mar. 10-17	Spring recess for second year
Mar. 11	Spring term begins for first and third years
Mar. 18	Spring term begins for second year
Apr. 3	Sixth division begins for fourth year
Apr. 14-21	Spring recess for first year
May 24	Instruction ends for fourth year
May 25	Instruction ends for third year
May 25-31	Examinations for fourth year
May 27-June 1	Examinations for third year
May 30	Memorial Day, holiday
June 1	Instruction ends for first and second years
June 3-5	Examinations for first and second years
June 5	Commencement 3 p.m.

THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

THE CENTER was formed by an agreement between the Society of the New York Hospital and Cornell University in order to associate organically the hospital and the medical college and to effect a complete coordination of the medical, educational, and scientific activities of the two institutions.

The Center is operated under the supervision of a Joint Administrative Board, composed of three governors of the Society of the New York Hospital, three representatives of the Board of Trustees of Cornell University, and one other member elected by the appointed members. The Director of the New York Hospital-Cornell Medical Center is the chief executive officer of the Joint Administrative Board, composed of the following:

JOSEPH C. HINSEY, *Director*,
The New York Hospital-Cornell Medical Center

FREDERICK K. TRASK, JR., *Chairman*

ARTHUR H. DEAN

FREDERIC W. ECKER

STANTON GRIFFIS

HAMILTON HADLEY

FRANCIS KERNAN

DEANE W. MALOTT

FORM OF BEQUESTS

The Society of the New York Hospital is associated with the Cornell University Medical College, which is one of the colleges of Cornell University, under the title of "The New York Hospital-Cornell Medical Center."

Gifts or bequests should be made to the College, to the Hospital, or to the Center.

If for the College, the language may be: "I give and bequeath to Cornell University the sum of \$. for use in connection with its Medical College in New York City." If it is desired that a gift shall be used in whole or in part for any specific purpose in connection with the College, such use may be specified.

If for the Hospital, the language may be: "I give and bequeath to the Society of the New York Hospital, the sum of \$."

If for the Center, the language may be: "I give and bequeath to The New York Hospital-Cornell Medical Center Foundation, Inc., the sum of \$."

THE COLLEGE COUNCIL

For the purpose of discharging its duties to the Memorial Hospital under the Douglas Deeds of Trust, the Board of Trustees is constituted as the Council of the Cornell University Medical College in New York City.



*New York
Hospital—
Cornell
Medical Center*

OFFICERS OF ADMINISTRATION

DEANE W. MALOTT, *President of the University*
JOHN E. DEITRICK, *Dean of the Medical College*
LAWRENCE W. HANLON, *Associate Dean*
RICHARD H. SAUNDERS, JR., *Associate Dean*
EDWARD K. TAYLOR, *Assistant Treasurer and Business Manager*
BEATRICE B. BERLE, *Counselor to Foreign Students*
ANNA F. BURKE, *Librarian*

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JOHN E. DEITRICK
R. GORDON DOUGLAS
VINCENT DU VIGNEAUD
JOHN A. EVANS
FRANK GLENN
JOSEPH C. HINSEY
JOHN G. KIDD

WILLIAM T. LHAMON
E. HUGH LUCKEY
WALLACE W. MCCRORY
WALSH McDERMOTT
ROBERT F. PITTS
WALTER F. RIKER, JR.
WILLIAM F. SCHERER
ROY C. SWAN

LAWRENCE W. HANLON, *Secretary*

STANDING COMMITTEES *

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JAMES R. MCCARROLL
RICHARD H. SAUNDERS, JR.
ALPHONSE E. TIMPANELLI

ANIMAL CARE

RICHARD H. SAUNDERS, JR., *Chairman*
JOHN M. BEAL
WILLIAM C. BEAVER
E. LOVELL BECKER
ALVIN SELLERS
JOHN JONES (*Administration*)

CURRICULUM

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JOHN M. BEAL
ERIC T. CARLSON
WILLIAM D. CASH
HEINZ F. EICHENWALD
HAROLD HEMPLING
DONALD G. JOHNSON
EDWIN D. KILBOURNE
WALTER MODELL
ZUHEIR MUJAHED
GEORGE G. READER
GOETZ W. RICHTER
LEONARD L. ROSS
LAWRENCE W. HANLON, *ex officio*
JOHN E. DEITRICK, *ex officio*

*The Dean is ex officio a member of all committees.

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 THOMAS P. ALMY
 GÖRAN BAUER
 GEORGE B. BROWN
 HARRY W. BURNETT
 ERIC T. CARLSON
 LAWRENCE W. HANLON
 VERONICA LYONS
 JOHN MACLEOD
 VICTOR F. MARSHALL
 JULIAN R. RACHELE
 FRED W. STEWART
 ANNA F. BURKE, *Librarian*

PRIZES IN RESEARCH

ROBERT F. WATSON, *Chairman*
 GEORGE B. CHAPMAN
 AARON KELLNER
 THOMAS KILLIP III
 RICHARD H. SAUNDERS, JR.

PROMOTION AND GRADUATION

JOHN E. DEITRICK, *Chairman*
 Heads of departments, or their representatives,
 responsible for the more important courses of
 each year.

RESEARCH SOCIETY

WILLIAM D. CASH, *Chairman*
 EDWIN D. KILBOURNE
 DANIEL S. LUKAS
 GOETZ W. RICHTER
 RICHARD H. SAUNDERS, JR.
 MARVIN H. SLEISINGER
 FRANK G. STANDAERT

SCHOLARSHIPS

WALTER F. RIKER, *Chairman*
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 JOHN M. MCLEAN
 S. W. MOORE
 JULIAN R. RACHELE
 RICHARD H. SAUNDERS, JR.

FACULTY*

DEANE W. MALOTT, *President of the University.*

EMERITUS PROFESSORS

ARTHUR F. ANDERSON, M.D. [1930; 1962]	<i>Clinical Professor of Pediatrics</i>
DAVID P. BARR, M.D. [1916; 1957]	<i>Professor of Medicine</i>
McKEEN CATTELL, M.D. [1925; 1959]	<i>Professor of Pharmacology</i>
RUSSELL L. CECIL, M.D. [1910; 1950]	<i>Clinical Professor of Medicine</i>
LLOYD F. CRAVER, M.D. [1934; 1959]	<i>Clinical Professor of Medicine</i>
OSKAR DIETHELM, M.D. [1936; 1962]	<i>Professor of Psychiatry</i>
DAYTON J. EDWARDS, Ph.D. [1918; 1950]	<i>Professor of Physiology</i>
CARY EGGLESTON, M.D. [1911; 1953]	<i>Clinical Professor of Medicine</i>
CONNIE M. GUION, M.D. [1924; 1951]	<i>Clinical Professor of Medicine</i>
JAMES A. HARRAR, M.D. [1932; 1948]	<i>Clinical Professor of Obstetrics and Gynecology</i>
HELEN HARRINGTON, M.D. [1933; 1959]	<i>Clinical Professor of Pediatrics</i>
EDWIN T. HAUSER, M.D. [1935; 1961]	<i>Clinical Professor of Medicine</i>
LOUIS HAUSMAN, M.D. [1923; 1959]	<i>Clinical Professor of Medicine (Neurology)</i>
SAMUEL Z. LEVINE, M.D. [1924; 1961]	<i>Professor of Pediatrics</i>
ASA L. LINCOLN, M.D. [1921; 1959]	<i>Clinical Professor of Medicine</i>
WILLIAM F. MacFEE, M.D. [1936; 1958]	<i>Clinical Professor of Surgery</i>
CHARLES V. MORRILL, Ph.D. [1915; 1953]	<i>Professor of Anatomy</i>
JAMES M. NEILL, M.D. [1931; 1962]	<i>Professor of Microbiology and Immunology</i>
CHARLES T. OLCOTT, M.D. [1926; 1958]	<i>Professor of Pathology</i>
EUGENE I. OPIE, M.D. [1932; 1941]	<i>Professor of Pathology</i>
PAUL REZNIKOFF, M.D. [1924; 1961]	<i>Clinical Professor of Medicine</i>
WILSON G. SMILLIE, M.D. [1937; 1955]	<i>Professor of Public Health</i>
ALEXANDER R. STEVENS, M.D. [1924; 1946]	<i>Clinical Professor of Surgery (Urology)</i>
LEWIS D. STEVENSON, M.D. [1922; 1957]	<i>Clinical Professor of Medicine (Neurology)</i>
HAROLD J. STEWART, M.D. [1932; 1961]	<i>Clinical Professor of Medicine</i>
PHILIP M. STIMSON, M.D. [1919; 1956]	<i>Clinical Professor of Pediatrics</i>
EDWARD TOLSTOI, M.D. [1927; 1962]	<i>Clinical Professor of Medicine</i>
MAY G. WILSON, M.D. [1918; 1959]	<i>Clinical Professor of Pediatrics</i>
PHILIP D. WILSON, M.D. [1951; 1955]	<i>Clinical Professor of Surgery (Orthopedics)</i>

PROFESSORS

THOMAS P. ALMY, <i>Professor of Medicine.</i> Attending Physician, New York Hospital; Associate Attending Physician, Memorial Hospital; Director and Visiting Physician, Second Medical Division, Bellevue Hospital. (A.B. 1935, M.D. 1939, Cornell. [1940; 1957])
JOSEPH F. ARTUSIO, JR., <i>Professor of Anesthesiology in Surgery; Professor of Anesthesiology in Obstetrics and Gynecology.</i> Anesthesiologist-in-Chief, New York Hospital. (B.S. 1939, St. Peter's; M.D. 1943, Cornell. [1946; 1957])
LEONA BAUMGARTNER, <i>Clinical Professor of Public Health; Clinical Associate Professor of Pediatrics.</i> Associate Attending Pediatrician, New York Hospital. (A.B. 1923, M.A. 1925, Kansas; Ph.D. 1932, M.D. 1934, Yale. [1935; 1958])
ALEXANDER BRUNSCHWIG, <i>Clinical Professor of Surgery.</i> Attending Surgeon, Memorial Hospital. (B.A. 1923, M.S. 1924, University of Chicago; M.D. 1926, Rush. [1947])
JOSEPH H. BURCHENAL, <i>Professor of Medicine.</i> Attending Physician, Memorial Hospital. (M.D. 1937, Pennsylvania. [1949; 1952])

* The figures in brackets following the name of each faculty member indicate the date of original appointment and the year of induction into present rank.

- ANTHONY C. CIPOLLARO, *Clinical Professor of Medicine (Dermatology)*. Associate Attending Physician, New York Hospital. (B.S. 1924, Dartmouth; M.D. 1927, Columbia. [1948; 1960])
- HERBERT CONWAY, *Clinical Professor of Surgery (Plastic Surgery)*. Attending Surgeon in Charge of Plastic Surgery, New York Hospital; Visiting Surgeon (Plastic Surgery), Bellevue Hospital. (M.B. 1928, B.S., M.D., 1929, M.S., 1932, Cincinnati. [1932; 1955])
- HAROLD W. K. DARGEON, *Clinical Professor of Pediatrics*. Attending Pediatrician, Memorial Hospital. (M.D. 1922, Albany. [1947; 1961])
- JOHN E. DEITRICK, *Dean; Professor of Medicine*. Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1929, Princeton; M.D. 1933, Johns Hopkins. [1935; 1957])
- EDWARD H. DENNEN, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1919, Tufts. [1933; 1958])
- R. GORDON DOUGLAS, *Professor of Obstetrics and Gynecology (Chairman)*. Obstetrician-and-Gynecologist-in-Chief, New York Hospital. (M.D.C.M. 1924, McGill. [1932; 1949])
- HENRY S. DUNNING, *Clinical Professor of Medicine (Neurology)*. Associate Attending Physician, New York Hospital; Consulting Neurologist, New York Hospital, Westchester Division. (A.B. 1927, M.D. 1930, Cornell. [1932; 1961])
- VINCENT DU VIGNEAUD, *Professor of Biochemistry*. (B.S. 1923, M.S. 1924, Illinois; Ph.D. 1927, Rochester; Sc.D. 1955, New York University, Yale. [1938])
- HEINZ F. EICHENWALD, *Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (A.B. 1946, Harvard; M.D. 1950, Cornell. [1951; 1961])
- JOHN A. EVANS, *Professor of Radiology (Chairman)*. Radiologist-in-Chief, New York Hospital. (B.S. 1931, New York University; M.D. 1935, Cornell. [1937; 1953])
- CLAUDE E. FORKNER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1922, M.A. 1923, California; M.D. 1926, Harvard. [1938; 1953])
- RICHARD H. FREYBERG, *Clinical Professor of Medicine*. Associate Attending Physician, New York Hospital; Attending Physician, Hospital for Special Surgery. (A.B. 1926, M.D. 1930, M.S. 1934, Michigan. [1944; 1957])
- RALPH W. GAUSE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1926, Texas; M.D. 1930, Harvard. [1935; 1962])
- FRANK GLENN, *Lewis Atterbury Stimson Professor of Surgery (Chairman)*. Surgeon-in-Chief, New York Hospital. (M.D. 1927, Washington University. [1932; 1947])
- HARRY GOLD, *Clinical Professor of Pharmacology*. (A.B. 1919, M.D. 1922, Cornell. [1922; 1947])
- FRANCIS J. HAMILTON, *Clinical Professor of Psychiatry*. Attending Psychiatrist, New York Hospital. (A.B. 1928, St. Joseph's; M.D. 1933, Jefferson. [1940; 1962])
- JOHN R. HELLER, *Clinical Professor of Public Health*. President, Memorial Sloan-Kettering Cancer Center. (B.S. 1925, Clemson; M.D. 1929, Emory. [1962])
- JOSEPH C. HINSEY, *Professor of Neuroanatomy*. Director, New York Hospital-Cornell Medical Center. (B.S. 1922, M.S. 1923, Northwestern; Ph.D. 1927, Washington University; Sc.D. 1951, Northwestern. [1936; 1956])
- CRANSTON W. HOLMAN, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital; Director and Visiting Surgeon, Second Surgical Division, Bellevue Hospital. (A.B. 1927, M.D. 1931, Stanford. [1932; 1958])
- FRANK L. HORSFALL, JR., *Professor of Medicine*. President and Director, Sloan-Kettering Institute, and Director, Sloan-Kettering Division of Cornell University Medical College. (B.A. 1927, University of Washington; M.D.C.M. 1932, McGill University. [1960])
- WILLIAM T. INGRAM, *Visiting Professor of Public Health Engineering*. (A.B. 1930, Stanford; M.P.H. 1942, Johns Hopkins. [1957])
- JOHN G. KIDD, *Professor of Pathology (Chairman)*. Pathologist-in-Chief, New York Hospital. (A.B. 1928, Duke; M.D. 1932, Johns Hopkins. [1944])
- EDWIN D. KILBOURNE, *Professor of Public Health*. Associate Attending Physician, New York Hospital. (A.B. 1942, M.D. 1944, Cornell. [1955; 1961])
- MILTON L. KRAMER, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1926, M.D. 1929, Columbia. [1935; 1960])
- ALEXANDER H. LEIGHTON, *Professor of Psychiatry (Social Psychiatry)*. Attending Psychiatrist, New York Hospital. (A.B. 1923, Princeton; M.A. 1934, Cambridge; M.D. 1936, Johns Hopkins. [1947; 1957])
- GEORGE M. LEWIS, *Clinical Professor of Medicine (Dermatology)*. Attending Physician (Dermatology), New York Hospital; Consulting Dermatologist, Memorial Hospital. (M.D. 1925, University of Alberta; L.M.C.C. 1925, Medical College of Canada. [1932; 1949])
- WILLIAM T. LHAMON, *Professor of Psychiatry (Chairman)*. Psychiatrist-in-Chief, New York Hospital. (A.B. 1936, M.D. 1940, Stanford. [1962])

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- E. HUGH LUCKEY, *Professor of Medicine (Chairman)*. Physician-in-Chief, New York Hospital; Visiting Physician, Bellevue Hospital. (B.S. 1940, Union; M.D. 1944, Vanderbilt; Sc.D. 1954, Union. [1949; 1957])
- VICTOR F. MARSHALL, *Clinical Professor of Surgery (Urology)*. Attending Surgeon in Charge of Urology, New York Hospital; Associate Attending Surgeon, Memorial Hospital. (M.D. 1937, Virginia. [1938; 1957])
- WALLACE W. McCRORY, *Professor of Pediatrics (Chairman)*. Pediatrician-in-Chief, New York Hospital (B.S. 1941, M.D. 1944, University of Wisconsin. [1961])
- WALSH McDERMOTT, *Livingston Farrand Professor of Public Health (Chairman)*. Attending Physician, New York Hospital. (A.B. 1930, Princeton; M.D. 1934, Columbia. [1935; 1955])
- CHARLES M. McLANE, *Clinical Professor of Obstetrics and Gynecology*. Attending Obstetrician and Gynecologist, New York Hospital; Assistant Attending Radiologist (Obstetrics and Gynecology), New York Hospital. (A.B. 1924, M.D. 1928, Johns Hopkins. [1932; 1962])
- JOHN M. McLEAN, *Clinical Professor of Surgery (Ophthalmology)*. Attending Surgeon in Charge of Ophthalmology, New York Hospital; Consulting Ophthalmologist, Memorial Hospital. (M.E. 1930, Stevens Institute; M.D. 1934, Cornell. [1941; 1943])
- ROBERT C. MELLORS, *Professor of Pathology*. Director of Laboratory and Pathology, Hospital for Special Surgery. (A.B. 1937, M.A. 1938, Ph.D. 1940, Western Reserve; M.D. 1944, Johns Hopkins. [1961])
- ADE T. MILHORAT, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1924, Columbia; M.D. 1928, Cornell. [1933; 1956])
- JAMES A. MOORE, *Clinical Professor of Surgery (Otolaryngology)*. Attending Surgeon in Charge of Otolaryngology, New York Hospital. (B.S. 1930, Davidson College; M.D. 1934, Harvard. [1941; 1961])
- S. W. MOORE, *Clinical Professor of Surgery*. Attending Surgeon, New York Hospital. (B.S. 1926, Davidson College; M.D. 1930, Harvard. [1932; 1956])
- CARL MUSCHENHEIM, *Clinical Professor of Medicine*. Attending Physician, New York Hospital. (A.B. 1928, M.D. 1931, Columbia. [1933; 1960])
- JOSEPH N. NATHANSON, *Clinical Professor of Obstetrics and Gynecology*. Consultant in Obstetrics and Gynecology, New York Hospital. (M.D.C.M. 1919, McGill. [1926; 1958])
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- ROBERT F. PITTS, *Professor of Physiology*. (B.S. 1929, Butler University; Ph.D. 1932, Johns Hopkins; M.D. 1938, New York University. [1942; 1950])
- HENRY T. RANDALL, *Professor of Surgery*. Clinical Director and Chairman, Department of Surgery, Memorial Hospital. (A.B. 1937, Princeton; M.D. 1941, Med.Sc.D. 1950, Columbia. [1950; 1951])
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- WALTER F. RIKER, JR., *Professor of Pharmacology (Chairman)*. (B.S. 1939, Columbia; M.D. 1943, Cornell. [1941; 1956])
- WILLIAM F. SCHERER, *Professor of Microbiology and Immunology*. (M.D. 1947, University of Rochester. [1962])
- ROBERT S. SHERMAN, *Clinical Professor of Radiology*. Attending Roentgenologist, Memorial Hospital. (Ph.B. 1931, Brown; M.D. 1935, Harvard. [1947; 1958])
- CARL H. SMITH, *Clinical Professor of Pediatrics*. Attending Pediatrician, New York Hospital. (B.A. 1915, C.C.N.Y.; M.A. 1917, Columbia; M.D. 1922, Cornell. [1928; 1954])
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- WILBUR D. HAGAMEN, *Associate Professor of Anatomy*. (B.S. 1945, Baldwin-Wallace College; M.D. 1951, Cornell. [1949; 1962])
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- LEON L. RACKOW, *Clinical Associate Professor of Psychiatry*. (B.S. 1932, Pennsylvania State; M.D. 1936, University of Edinburgh. [1950; 1962])
- GOETZ W. RICHTER, *Associate Professor of Pathology*. Associate Attending Pathologist, New York Hospital. (A.B. 1943, Williams; M.D. 1948, Johns Hopkins [1948; 1958])
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- D. ROBERT AXELROD, *Clinical Assistant Professor of Physiology*. (M.D. 1948, New York University. [1950; 1956])
- NILS U. BANG, *Assistant Professor of Medicine*. (M.D. 1955, University of Copenhagen. [1961])
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- HUGH R. K. BARBER, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician, Memorial Hospital. (B.A. 1941, Columbia; M.D. 1944, Columbia. [1954; 1962])
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- CHARLES H. BAUER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1949, Columbia; M.D. 1953, Harvard. [1961])
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- ANNE M. BELCHER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Associate Attending Surgeon (Otolaryngology), New York Hospital. (A.B. 1917, M.D. 1920, Cornell. [1942; 1956])
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- JOHN W. DOUGHERTY, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. (B.S. 1941, M.D. 1943, Minnesota. [1951; 1956])
- J. EDWIN DREW, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital. (B.S. 1930, Georgetown; M.D. 1934, Columbia. [1942; 1958])
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18 CORNELL MEDICAL COLLEGE

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- ANN P. KENT, *Clinical Assistant Professor of Public Health*. Associate Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1930, George Washington University; M.D. 1933, Maryland; M.P.H. 1939, Johns Hopkins. [1950; 1954])
- RICHARD H. KESSLER, *Clinical Assistant Professor of Physiology*. (B.S. 1948, Rutgers; M.D. 1952, New York University. [1955; 1958])
- THOMAS KILLIP III, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1948, Swarthmore; M.D. 1952, Cornell. [1953; 1958])
- HENRY B. KIRKLAND, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital; Visiting Physician, Bellevue Hospital; Attending Cardiologist, Hospital for Special Surgery. (A.B. 1924, Princeton; M.D. 1928, Cornell. [1934; 1955])
- SEYMOUR G. KLEBANOFF, *Assistant Professor of Psychology in Psychiatry*. (A.B. 1937, Yale; Ph.D. 1947, Northwestern. [1950])
- CHARLES A. KNEHR, *Assistant Professor of Psychology in Psychiatry*. (A.B. 1932, A.M. 1933, Ph.D. 1941, Columbia. [1947; 1957])
- SAMUEL S. KOIDE, *Assistant Professor of Medicine*. (B.S. 1945, University of Hawaii; M.D. 1953, Ph.D. 1960, Northwestern. [1961])

- HERBERT KOTEEN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1935, Wisconsin; M.D. 1939, Johns Hopkins. [1943; 1953])
- O. DHODANAND KOWLESSAR, *Assistant Professor of Medicine*. (B.A. 1948, Oxford; M.S. 1949, Iowa; M.D. 1955, University of Rochester. [1956; 1960])
- IRWIN H. KRAKOFF, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1943, M.D. 1947, Ohio State. [1956; 1958])
- MARGARET M. KUGLER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1946, St. Joseph's; M.D. 1950, State University College of Medicine, New York City. [1956; 1959])
- SHERMAN KUPFER, *Clinical Assistant Professor of Physiology*. (M.D. 1948, Cornell. [1950; 1957])
- ALBERT S. KUPERMAN, *Assistant Professor of Pharmacology*. (A.B. 1952, New York University; Ph.D. 1957, Cornell. [1961])
- HENN KUTT, *Assistant Professor of Medicine*. (M.D. 1950, Frankfurt. [1961])
- MICHAEL LAKE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1919, M.D. 1922, Cornell. [1926; 1953])
- THOMAS S. LANGER, *Assistant Professor of Sociology in Psychiatry*. (A.B. 1948, Harvard; Ph.D. 1954, Columbia. [1952; 1957])
- WALTER LAWRENCE, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. (Ph.B. 1944, B.S. 1945, M.D. 1948, University of Chicago. [1957; 1958])
- RICHARD E. LEE, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.S. 1939, Massachusetts; M.A. 1940, Ph.D. 1942, Harvard; M.D. 1947, Columbia. [1950; 1954])
- ROBERT D. LEEPER, *Assistant Professor of Medicine*. (B.S. 1949, Idaho; M.D. 1953, Columbia. [1962])
- ALFRED B. LEWIS, JR., *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (B.A. 1949, Harvard; M.D. 1953, University of Pennsylvania. [1956; 1962])
- JERROLD S. LIEBERMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (B.A. 1943, M.D. 1946, Cornell. [1951; 1960])
- WAN NGO LIM, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (M.D. 1945, National Shanghai Medical College. [1953; 1959])
- HARVEY A. LINCOFF, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, (Ophthalmology), New York Hospital. (A.B. 1943, Harvard; M.D. 1948, Pittsburgh. [1960])
- MACK LIPKIN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1926, C.C.N.Y.; M.D. 1930, Cornell. [1953])
- MARTIN LIPKIN, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. A.B. 1946, M.D. 1950, New York University. [1955; 1960])
- MARVIN LORING, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (M.D. 1947, Chicago Medical College. [1959])
- LUCILE LOSEKE, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1938, M.S. 1940, M.D. 1940, Nebraska. [1952; 1955])
- DONALD B. LOURIA, *Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.S. 1949, M.D. 1953, Harvard. [1954; 1960])
- MELVILLE G. MAGIDA, *Clinical Assistant Professor of Medicine*. (B.A. 1944, Johns Hopkins; M.D. 1946, Long Island College of Medicine. [1961])
- THEODORE A. MAHOWALD, *Assistant Professor of Biochemistry*. (A.B. 1952, St. John's; Ph.D. 1957, St. Louis. [1962])
- BERNARD MAISEL, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (A.B. 1936, M.D. 1940, Johns Hopkins. [1945; 1953])
- HENRY MANNIX, JR., *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.S. 1947, Holy Cross; M.D. 1950, Cornell. [1951; 1960])
- FLORENCE N. MARSHALL, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.A. 1944, Wellesley; M.D. 1948, Cornell. [1952; 1959])
- ARMOND V. MASCIA, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1942, Columbia; M.D. 1944, New York University. [1954; 1962])
- JAMES F. MASTERSON, JR., *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (M.D. 1951, Jefferson Medical College. [1953; 1959])

- KLAUS MAYER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (B.S. 1945, Queens College; M.D. 1950, University of Zurich and Groninge. [1958; 1960])
- VICTOR MAYER, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Surgeon, (Orthopedics), New York Hospital. (A.B. 1934, Lehigh; M.D. 1938, Jefferson Medical College. [1955; 1958])
- ABRAHAM MAZUR, *Assistant Professor of Biochemistry in Medicine*. (B.S. 1932, C.C.N.Y.; M.A. 1934, Ph.D. 1938, Columbia. [1941; 1949])
- JAMES R. MCCARROLL, *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. (A.B. 1942, Colby College; M.D. 1946, Cornell. [1954; 1955])
- A. PARKS MCCOMBS, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, New York Hospital. (B.S. 1925, Connecticut College; M.D. 1929, Cornell. [1930; 1956])
- RICHARD R. MCCORMACK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (A.B. 1937, Columbia; M.D. 1941, Cornell. [1946; 1953])
- ROBERT M. McCUNE, JR., *Assistant Professor of Public Health*. Assistant Attending Physician, New York Hospital. (A.B. 1946, West Virginia; M.D. 1948, Johns Hopkins. [1951; 1955])
- ELLEN McDEVITT, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1930, Mississippi State; M.D. 1949, Utah. [1953; 1957])
- JAMES F. MCGOVERN, *Clinical Assistant Professor of Medicine*. Associate Attending Physician, Bellevue Hospital. (A.B. 1944, St. Peter's; M.D. 1948, Long Island College of Medicine. [1962])
- JOHN H. MCGOVERN, *Clinical Assistant Professor of Surgery (Urology)*, Assistant Attending Surgeon (Urology), New York Hospital (B.S. 1947, Columbia; M.D. 1952, State University College of Medicine, New York City. [1954; 1959])
- ROBERT G. MCGOVERN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (B.S. 1944, New York University; M.D. 1947, Columbia. [1951; 1959])
- MARION McILVEEN, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital; Assistant Attending Pediatrician, Hospital for Special Surgery. (A.B. 1933, Smith; M.D. 1938, Woman's Medical College. [1943; 1958])
- FREDERICK C. McLELLAN, *Clinical Assistant Professor of Surgery (Urology)*. Assistant Attending Surgeon (Urology), New York Hospital; Attending Urologist, New York Hospital, Westchester Division. (B.S. 1929, M.D. 1933, Dalhousie; M.S. 1936, Michigan. [1941; 1948])
- ROBERT H. MELCHIONNA, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1929, St. John's University; M.D. 1925, St. Louis University. [1939; 1953])
- DANIEL G. MILLER, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1945, Colgate; M.D. 1948, University of Buffalo. [1957; 1960])
- THEODORE R. MILLER, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (M.D. 1933, Temple. [1952; 1962])
- LAURENCE MISCALL, *Clinical Assistant Professor of Surgery*. Visiting Surgeon, Bellevue Hospital. (A.B. 1926, M.D. 1930, Cornell. [1942; 1947])
- VIRGINIA C. MITTY, *Clinical Assistant Professor of Pediatrics*. (B.S. 1941, Mt. St. Vincent; M.D. 1946, New York University. [1951; 1962])
- JOAN E. MORGENTHAU, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1945, Vassar; M.D. 1949, Columbia. [1954; 1958])
- GEORGE MUELLER, *Clinical Assistant Professor of Surgery (Otolaryngology)*. Assistant Attending Surgeon (Otolaryngology), New York Hospital. (B.S. 1931, M.D. 1935, Georgetown. [1961])
- ZUHEIR MUJAHED, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.A. 1942, M.D. 1947, American University, Beirut. [1955; 1957])
- BERNARD NATHANSON, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (M.D. 1949, McGill. [1957; 1962])
- JAMES A. NICHOLAS, *Clinical Assistant Professor of Surgery (Orthopedics)*. Assistant Attending Orthopedic Surgeon, Hospital for Special Surgery; Associate Attending Surgeon (Orthopedics), New York Hospital, (A.B. 1942, New York University; M.D. 1945, Long Island College of Medicine. [1958])
- IRWIN NYDICK, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Assistant Visiting Physician, Bellevue Hospital. (B.A. 1945, M.D. 1948, Columbia. [1953; 1960])
- WILLIAM M. O'LEARY, *Assistant Professor of Microbiology and Immunology*. (B.S. 1952, M.S. 1953, Ph.D. 1957, University of Pittsburgh. [1959])

- PHILLIP OLLSTEIN, *Clinical Assistant Professor of Public Health*. (M.D. 1927, Long Island College of Medicine. [1944; 1950])
- MELVILLE A. PLATT, *Clinical Assistant Professor of Obstetrics and Gynecology*. (B.A. 1948, M.D. 1952, Western Ontario. [1955; 1962])
- NORMAN PLUMMER, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1922, California; M.D. 1926, Cornell. [1928; 1941])
- NATHAN POKER, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (A.B. 1942, Brooklyn College; M.D. 1950, Columbia. [1953; 1956])
- JOHN L. POOL, *Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1930, Princeton; M.D. 1934, Columbia. [1948])
- J. WILLIAM POPPELL, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (A.B. 1942, Texas College of Mines; M.B. 1946, M.D. 1947, Northwestern. [1952; 1956])
- CURTIS T. PROUT, *Clinical Assistant Professor of Psychiatry*. Assistant Medical Director and Clinical Director, New York Hospital, Westchester Division. (A.B. 1921, M.D. 1924, Cornell; M.S. 1930, Michigan. [1948; 1951])
- JAMES W. RALEIGH, *Clinical Assistant Professor of Medicine*. (A.B. 1933, Holy Cross; M.D. 1939, Long Island College of Medicine. [1961])
- FRED RAPP, *Assistant Professor of Microbiology and Immunology*. Microbiologist, Hospital for Special Surgery. (B.S. 1951, Brooklyn; M.S. 1956, Union; Ph.D. 1958, University of Southern California. [1961])
- S. FRANK REDO, *Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (B.S. 1942, Queens College; M.D. 1950, Cornell. [1956; 1958])
- JOHN C. RIBBLE, *Assistant Professor of Medicine*. (M.D. 1955, Texas. [1960; 1962])
- JACK RICHARD, *Clinical Assistant Professor of Medicine*. (B.A. 1950; M.D. 1953, Cornell. [1956; 1962])
- ERIC C. RICHARDSON, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. (B.S. 1921, M.D. 1924, McGill. [1938; 1955])
- EDGAR A. RILEY, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (M.D. 1944, Columbia. [1952; 1954])
- GUY F. ROBBINS, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.S. 1933, B.M. 1936, M.D. 1937, Northwestern. [1950; 1958])
- WILLIAM C. ROBBINS, *Clinical Assistant Professor of Medicine*. (A.B. 1942, Columbia; M.D. 1945, Cornell. [1948; 1960])
- ROBERT S. ROBERSON, *Assistant Professor of Microbiology and Immunology*. (B.A. 1951, Ph.D. 1960, North Carolina. [1961; 1962])
- THOMAS N. ROBERTS, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (B.S. 1946, South Dakota; M.D. 1948, Harvard. [1949; 1956])
- FRED V. ROCKWELL, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1931, M.D. 1936, Rochester. [1939; 1946])
- BERNARD ROGOFF, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, Hospital for Special Surgery. (B.S. 1932, New York University; M.D. 1936, University of Geneva. [1961])
- DAVID M. ROSEMAN, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1947; M.D. 1951, Johns Hopkins. [1952; 1959])
- PAUL RUEGSEGGER, *Clinical Assistant Professor of Medicine*. (M.D. 1946, University of Zurich. [1961; 1962])
- RICHARD A. RUSKIN, *Clinical Assistant Professor of Obstetrics and Gynecology*. Assistant Attending Obstetrician and Gynecologist, New York Hospital. (A.B. 1940, M.D. 1943, Duke. [1952; 1958])
- JOHN G. SCHMIDT, *Clinical Assistant Professor of Surgery (Orthopedics)*. Associate Attending Surgeon, New York Hospital. (A.B. 1925, Williams; M.D. 1930, Harvard. [1939; 1946])
- ROBERT I. SCHRIER, *Clinical Assistant Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1947, Indiana; M.B. 1952, M.D. 1953, Chicago Medical School. [1953; 1960])
- MELVIN S. SCHWARTZ, *Assistant Professor of Biometrics in Public Health*. (A.B. 1944, M.D. 1949, New York University. [1960])
- OLGA SCHWEIZER, *Assistant Professor of Anesthesiology in Surgery*. Attending Anesthesiologist, Memorial Hospital. (A.B. 1932, Barnard; M.D. 1937, Columbia. [1954])
- SAMUEL SEAL, *Clinical Assistant Professor of Radiology*. Assistant Attending Radiation Therapist, Memorial Hospital. (B.S. 1939, M.D. 1942, University of Chicago. [1956; 1960])

- HENRY M. SELBY, *Clinical Assistant Professor of Radiology*. Assistant Attending Roentgenologist, Memorial Hospital. (B.S. 1940, M.D. 1943, Louisiana State. [1951; 1957])
- ARTHUR W. SELIGMANN, *Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1933, Columbia; M.D. 1937, Cornell. [1955; 1962])
- JOHN F. SEYBOLT, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. (B.S. 1938, Yale; M.D. 1943, Cornell. [1947; 1955])
- DONALD M. SHAFER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon, New York Hospital. (A.B. 1932, Columbia; M.D. 1936, Cornell. [1958])
- BETTISON E. SHAPIRO, *Clinical Assistant Professor of Anatomy*. (B.A. 1951, Ph.D. 1957, Cornell. [1953; 1962])
- CHARLES SHEARD, *Clinical Assistant Professor of Medicine (Dermatology)*. Assistant Attending Physician, New York Hospital. (M.D. 1939, University of Toronto; F.R.C.P. 1949, Royal College of Physicians (Canada). [1951; 1960])
- PAUL SHERLOCK, *Assistant Professor of Medicine*. (B.S. 1950, Queens; M.D. 1954, Cornell. [1957; 1962])
- ALBERT C. SHERWIN, *Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1942, M.D. 1947, Columbia. [1950; 1956])
- MADOKA SHIBUYA, *Clinical Assistant Professor of Pediatrics*. (B.A. 1938, M.S. 1939, M.D. 1948, Stanford. [1952; 1960])
- MAURICE SHILS, *Assistant Professor of Medicine*. (B.A. 1937, Sc.D. 1940, Johns Hopkins; M.D. 1958, New York University. [1962])
- HENRY R. SHINEFIELD, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1944, M.D. 1948, Columbia. [1959; 1960])
- RICHARD SILVER, *Clinical Assistant Professor of Medicine*. (A.B. 1950, M.D. 1953, Cornell. [1956; 1962])
- PAUL A. SKUDDER, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, New York Hospital. (B.A. 1949, Middlebury; M.D. 1953, Cornell. [1960])
- MARTHA L. SMITH, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1937, Swarthmore; M.D. 1942, Buffalo; M.P.H. 1949, Johns Hopkins. [1945; 1958])
- STUART S. SNYDER, *Clinical Assistant Professor of Surgery (Ophthalmology)*. Assistant Attending Surgeon (Ophthalmology), New York Hospital. (B.Sc. 1941, York College; M.D. 1944, Nebraska. [1947; 1951])
- REUVEN K. SNYDERMAN, *Clinical Assistant Professor of Surgery*. Assistant Attending Surgeon, Memorial Hospital. (A.D. 1943, M.D. 1946, University of Pennsylvania. [1961])
- LAWRENCE S. SONKIN, *Clinical Assistant Professor of Medicine*. (B.S. 1941, C.C.N.Y.; M.S. 1942, Wisconsin; Ph.D. 1949, M.D. 1950, Chicago. [1950; 1962])
- HERBERT S. SPOOR, *Clinical Assistant Professor of Medicine (Dermatology)*. (B.S. 1934, University of Washington; Ph.D. 1940, Ohio State; M.D. 1945, New York University. [1961])
- NORTON SPRITZ, *Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. Assistant Visiting Physician, Bellevue Hospital. (A.B. 1948, M.D. 1952, Johns Hopkins. [1956; 1960])
- WILLARD H. SQUIRES, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. (A.B. 1922, University of Utah; M.D. 1924, Bellevue Hospital Medical College. [1961])
- FRANK G. STANDAERT, *Assistant Professor of Pharmacology*. (A.B. 1951, Harvard; M.D. 1955, Cornell. [1956; 1960])
- MAUS J. STEARNS, JR., *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (A.B. 1935, Union; M.D. 1939, Albany. [1950; 1955])
- HERMAN STEINBERG, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Associate Visiting Physician, Bellevue Hospital. (A.B. 1941, Columbia; M.D. 1945, Albany. [1952; 1960])
- GERTRUDE S. STERN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1945, Brooklyn College; M.D. 1949, Long Island College of Medicine. [1953; 1958])
- PETER E. STOKES, *Assistant Professor of Medicine in Psychiatry; Clinical Assistant Professor of Medicine*. Assistant Visiting Physician, Bellevue Hospital. (B.S. 1948, Trinity College; M.D. 1952, Cornell. [1953; 1960])
- RICHARD W. STONE, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital. (A.B. 1943, M.D. 1945, Wisconsin. [1958])
- JAMES C. STRICKLER, *Assistant Professor of Medicine*. (A.B. 1950, Dartmouth; M.D. 1953, Cornell. [1956; 1962])

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- WILLIAM D. STUBENBORD, *Clinical Assistant Professor of Medicine*. Assistant Attending Physician, New York Hospital; Consulting Physician, Westchester Division, New York Hospital. (B.S. 1927, Wesleyan; M.D. 1931, Cornell. [1933; 1953])
- JOSEPH D. SULLIVAN, *Clinical Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (B.S. 1935, Fordham; M.D. 1939, Cornell. [1946; 1959])
- MARGUERITE P. SYKES, *Assistant Professor of Medicine*. Assistant Attending Physician, Memorial Hospital. (M.D. 1948, New York University. [1955; 1957])
- CHARLOTTE T. C. TAN, *Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (M.D. 1941, Hsiang-Ya Medical College, Husnan, China. [1954; 1962])
- BJORN THORBJARNARSON, *Assistant Professor of Surgery*. Associate Attending Surgeon, New York Hospital. (M.D. 1947, University of Iceland. [1954; 1958])
- PETER M. TILLOTSON, *Assistant Professor of Radiology*. Assistant Attending Radiologist, New York Hospital. (B.S. 1952, Utah; M.D. 1959, Cornell. [1960; 1962])
- JEAN TODD, *Assistant Professor of Pathology*. Assistant Attending Pathologist, New York Hospital. (B.A., M.A. 1950, Cambridge; M.D., C.M. 1953, McGill. [1961])
- MARJORIE J. TOPKINS, *Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology; Clinical Assistant Professor of Anesthesiology in Surgery*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1946, Cornell; M.D. 1950, Vermont. [1954; 1958])
- RICHARD M. TORACK, *Assistant Professor of Pathology*. (B.S. 1948, Seton Hall; M.D. 1952, Georgetown. [1962])
- CORNELIUS H. TRAEGER, *Clinical Assistant Professor of Medicine*. Attending Physician, Hospital for Special Surgery. (A.B. 1923, M.D. 1927, Columbia. [1955])
- JEROME A. URBAN, *Clinical Assistant Professor of Surgery*. Associate Attending Surgeon, Memorial Hospital. (B.A. 1934, M.D. 1938, Columbia. [1961])
- ALAN VAN POZNAK, *Clinical Assistant Professor of Anesthesiology in Surgery; Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology*. Assistant Attending Anesthesiologist, New York Hospital. (A.B. 1948, M.D. 1952, Cornell. [1961; 1962])
- WILLIAM H. WAINWRIGHT, *Assistant Professor of Psychiatry*. Assistant Attending Psychiatrist, New York Hospital. (M.D. 1949, University of Chicago. [1955; 1959])
- NATHANIEL WARNER, *Clinical Assistant Professor of Psychiatry*. Associate Attending Psychiatrist, New York Hospital. (A.B. 1930, Harvard; M.A. 1934, M.D. 1940, Columbia. [1946; 1960])
- CHARLES A. WERNER, *Clinical Assistant Professor of Medicine*. Associate Visiting Physician, Bellevue Hospital. (B.S. 1942, Chicago; M.D. 1945, Cornell. [1948; 1958])
- LOUIS E. WEYMULLER, *Clinical Assistant Professor of Pediatrics*. Associate Attending Pediatrician, New York Hospital. (B.Sc. 1923, M.D. 1925, Nebraska. [1936; 1949])
- STEPHEN WHITE, *Clinical Assistant Professor of Radiology*. Associate Attending Radiologist, New York Hospital. (B.S. 1920, C.C.N.Y.; M.D. 1924, Cornell. [1931; 1944])
- STANLEY S. ZIPSER, *Clinical Assistant Professor of Pediatrics*. Assistant Attending Pediatrician, New York Hospital. (A.B. 1932, Columbia; M.D. 1936, Long Island College of Medicine. [1946; 1956])

GENERAL STATEMENT

HISTORY

CORNELL UNIVERSITY Medical College was established by the Board of Trustees of Cornell University on April 14, 1898, when they elected Dr. William M. Polk Director of the College and Dean of the Medical faculty and appointed six professors. The Medical College was made possible by the munificence of Colonel Oliver H. Payne, who provided the funds for the erection of the original building, located at 28th Street and First Avenue, and who pledged his support to the new institution. For several years he provided funds for the annual support of the college and later placed the institution on a secure foundation by making generous provision for its permanent endowment by a gift of over four million dollars.

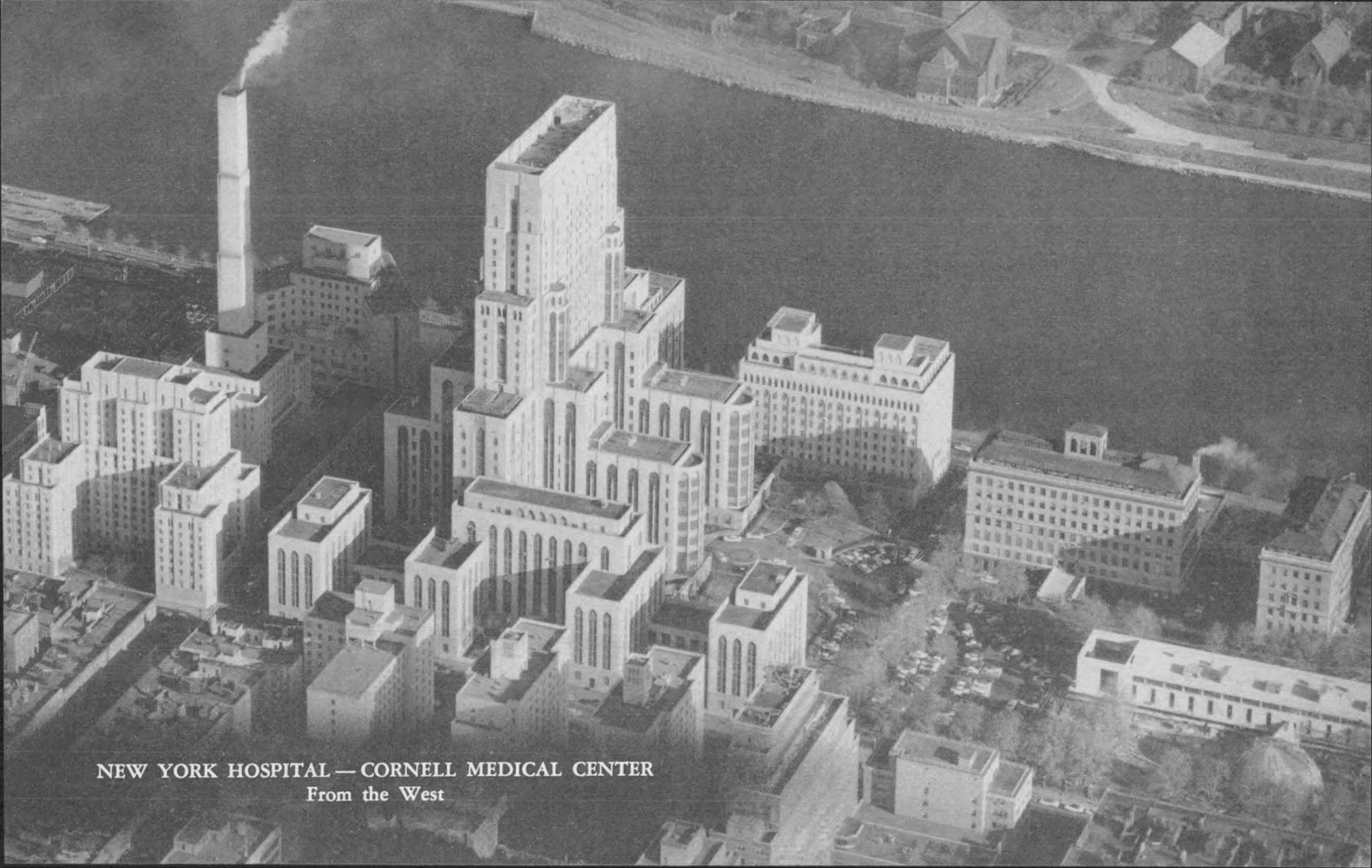
In October, 1898, instruction began in temporary quarters. As the Medical College admitted a number of students to advanced standing, Cornell University granted the degree of Doctor of Medicine for the first time in 1899.

The Cornell University Medical College from its foundation has undertaken to carry out two allied activities: the development of physicians of the best type and the extension of medical knowledge by means of research. The medical faculty has held from the beginning of its existence the attitude that these two functions are necessary as constituting a true university school. It is committed not only to conduct teaching of high order but also to study disease and the sciences underlying medicine with the purpose of adding to medical knowledge.

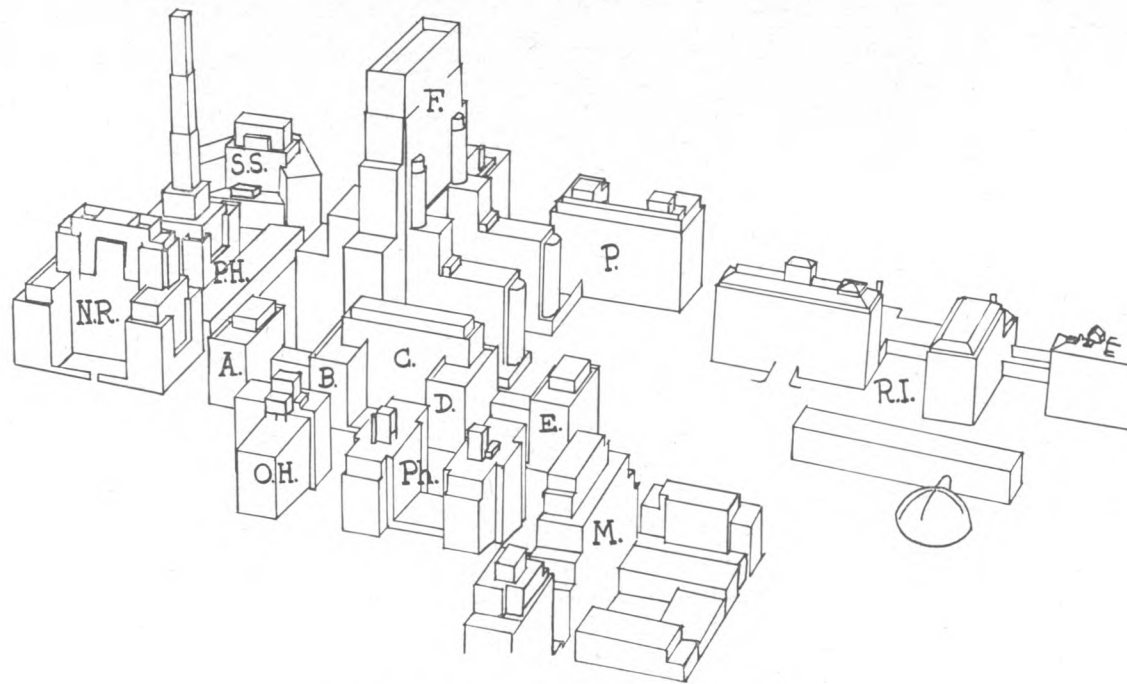
THE NEW YORK HOSPITAL-CORNELL MEDICAL CENTER

The Cornell University Medical College and the New York Hospital have been cooperating for a long time in an arrangement for medical teaching. In September, 1932, however, the two institutions took up occupancy in the same plant.

The New York Hospital was founded by Royal Charter on June 13, 1771, in the reign of King George III, and has stood throughout the life of the nation as one of the foremost hospitals in the United States, as an institution rendering service to the sick and injured, and as a center of medical education. For a number of years the Hospital and the Medical College had been partially affiliated. In June, 1927, an agreement was entered into between Cornell University and The Society of the New York Hospital, formalizing their affiliation for the purpose of bringing together their facilities and cooperating in the care of patients, in medical education, and in medical research. In order to harmonize the interests of the Hospital and of the Medical College, the Joint Administrative Board was formed, consisting of three representatives of each institution and a seventh member elected by the appointed members. The position of Director of this organization, the New York Hospital-Cornell Medical Center, was approved in 1953.



NEW YORK HOSPITAL — CORNELL MEDICAL CENTER
From the West



Key to the Photograph on the Opposite Page.

A. Anatomy.
B. Microbiology and Immunology.
C. Administration and Pathology.
D. Physiology.
E. Biochemistry and Pharmacology.
F. New York Hospital
M. Memorial Hospital.

N.R. Nurses' Residence.
O.H. Olin Hall.
P. Payne Whitney Psychiatric Clinic.
Ph. Phipps Houses.
P.H. Power and Maintenance.
R.I. Rockefeller Institute.
S.S. Hospital for Special Surgery.

Additional endowment was secured by each institution. A group of buildings was erected along the East River between 68th and 71st Streets, adjoining the Rockefeller Institute for Medical Research. The new plant affords separate buildings for each of the various laboratory departments and includes approximately 1220 hospital beds. Provision is made for anesthesiology, medicine, surgery, obstetrics, and gynecology, pediatrics, psychiatry, and radiology in seven distinct clinical units.

The faculty of the Medical College and the professional staff of the Hospital are organized so as to form one body established on a university basis.

The new plant affords very favorable conditions for the conduct of medical education, for the pursuit of medical research, and for the care of patients in all phases of medical practice.

FACILITIES FOR INSTRUCTION

From the point of view of medical instruction, the facilities provided by the plant of the New York Hospital-Cornell Medical Center are in many respects unexcelled. The plant consists of several buildings, joined either directly or by underground passages. These provide ample accommodations for the care of hospital patients, for the teaching of the clinical branches, and for the various activities connected with the work of the preclinical departments of the Medical College.

CORNELL MEDICAL COLLEGE . . . Instruction in the medical sciences is conducted in the buildings extending along York Avenue from 68th to 70th streets. The entrance to the Medical College is at the end of 69th Street in the Samuel J. Wood Library and Research Building. On the first floor of this building are the main reading room, the catalog and reference sections, and the areas for current journals of the library. The Medical College Alumni Office and the Offices of Admissions and Student Affairs are in the building (Unit C) directly behind the library. The B and D Units of the Medical College adjoin the Wood Building on its north and south sides. The upper floors of this central portion of the Medical College house the departments of microbiology, pathology, and physiology, along with the research laboratories for several of the clinical departments. The anatomy department is in the building at 70th Street (Unit A), and the building at 68th Street (Unit E) houses the departments of biochemistry and pharmacology. The A and E buildings are connected to the central buildings by two-story structures, and the central buildings are joined to the main hospital building on each of the seven floors.

The College auditorium, the student laboratories and lecture rooms for the basic science departments, as well as extensive research facilities for staff and students, are contained in the buildings along York Avenue.

NEW YORK HOSPITAL . . . Clinical instruction is given in the seven separate clinics forming the New York Hospital. The medical and surgical clinics occupy the central hospital building, while the woman's clinic, the pediatric clinic, and the psychiatric clinic extend from north to south, overlooking the East River. Each clinic contains, besides provision for bed patients, its own out-patient department, lecture rooms, and laboratories for routine study and for clinical research. Special provision has also been made for the laboratory work of students. The medical clinic occupies the second to fourth floors of the central

hospital building, with six pavilions for bed patients, three floors for its outpatient department, and extensive laboratories for chemical, physiological, and biological research. The surgical clinic occupies the pavilions from the fifth to the ninth floor, with outpatient and other facilities for the various surgical specialties. The operating rooms are on the tenth and eleventh floors. Above are six floors containing 128 rooms for private patients, while the living quarters for the resident staff are on the floors at the top of the building and in the new House Staff Residence. The entire hospital has a capacity of approximately 1220 beds.

The head of each clinic, responsible for the care of patients and the conduct of professional services of the hospital, is also professor in charge of the corresponding department of the Medical College. Each clinical department is staffed in part by teachers and clinicians, including the professor in charge, who devote their entire time to the service of the College and Hospital, while other members of these departments devote part of their time to private practice.

OTHER HOSPITALS FOR CLINICAL INSTRUCTION

Although the clinical teaching is conducted largely in the New York Hospital, advantage is also taken of special facilities afforded by other hospitals. In some of these hospitals the staff appointments are controlled by the Medical College, while in others the teaching privileges have been granted to the members of the staffs who are also members of the Medical College faculty.

BELLEVUE HOSPITAL . . . Bellevue is the central hospital of the New York City Department of Hospitals. It contains 2,741 beds and is devoted to the treatment of acute diseases. It is organized in four divisions, one of which has been placed at the disposal of the faculty of Cornell University Medical College for medical instruction. The services conducted by the College include a medical service and a surgical service, each of 90 beds, a urological service and a neurological service of approximately 60 beds. The staff of these services are nominated by the College from among the members of its faculty and teaching staff, and the Medical College is responsible for the professional conduct of these services.

HOSPITAL FOR SPECIAL SURGERY . . . The Hospital for Special Surgery occupies its new building adjacent to the New York Hospital and is an affiliated institution within the New York Hospital-Cornell Medical Center. Professionally, the Hospital for Special Surgery is, in effect, the orthopedic service of the New York Hospital.

MEMORIAL HOSPITAL . . . Through the generosity of the late Dr. James Douglas, who provided the hospital with an endowment for the study and treatment of cancer and allied diseases, the Memorial Hospital became affiliated in 1914 with Cornell University Medical College. The agreement between the Memorial Hospital and the College requires that the professional staff be named by the Council of the Medical College subject to the approval of the board of managers of the hospital. The facilities of the hospital, which are of exceptional value in the field of cancer, are available for study in this field by the members of the hospital staff, and unusual opportunities are afforded for instruction in the pathology, diagnosis, and treatment of neoplastic diseases.

MANHATTAN STATE HOSPITAL (WARD'S ISLAND) . . . This hospital for the care and treatment of mental diseases accommodates over 5,000 patients. Through the courtesy of the superintendent, the department of psychiatry is enabled to utilize this clinical material for bedside study of patients and for the instruction of students.

THE LOOMIS LABORATORY

Founded in 1886 and located at 414 East 26th Street, this institution served the purpose of undergraduate instruction in the Medical College and provided facilities for original research in the various departments of laboratory investigation. The present Medical College building contains space dedicated to the original Loomis Laboratory and its established objectives.

THE LIBRARY

The reading room of the library is on the first floor of the Samuel J. Wood Library and Research Building, to the right of the Medical College entrance at the end of 69th street. Adjoining the reading room are the sections for current journals, reference works, and medical monographs. The book stacks and carrels are on two floors below the main reading room.

The library contains about 70,000 volumes, largely made up of complete sets of important journals in the fields of clinical medicine and the medical sciences, in English, German, and French. There are also selected collections of monographs and textbooks.

Several of the departments of the Medical College have libraries containing journals, monographs, and textbooks pertaining especially to the subject matter of the departments. These collections, inter-library loans and photo-duplicate copies from other libraries, including the National Library of Medicine, supplement the medical library.

In addition to the college library, students may obtain certain privileges at the library of the New York Academy of Medicine, Fifth Avenue and 103rd Street, the second largest medical library in the United States.

THE RUSSELL SAGE INSTITUTE OF PATHOLOGY

The Institute has been associated with Cornell University Medical College since 1913. At first it was affiliated with the Second Medical (Cornell) Division of Bellevue Hospital, but since 1932 it has been in the New York Hospital. The Institute has supported work in metabolism which has been conducted by the members of the departments of medicine and physiology. The medical director of the Institute is Dr. E. Hugh Luckey, Professor of Medicine.

REQUIREMENTS FOR ADMISSION AND GRADUATION

THE FACULTY of Cornell University Medical College, in defining the qualifications for admission to the medical profession, attaches particular importance to the liberal culture and general education implied by the acquisition of a college degree. The college degree as a prerequisite for acceptance has been adopted by faculty and trustee action, and only the following candidates for the degree of Doctor of Medicine will be admitted to Cornell Medical College:

1. Graduates of approved colleges or scientific schools; or
2. Seniors in good standing in any approved college or scientific school whose faculty will permit them to substitute the first year of the professional course for the fourth year in arts and sciences, and who will confer upon them the Bachelor's degree upon the satisfactory completion of the first year of the course in the Cornell University Medical College. A student seeking admission under this clause must have a statement from the dean of his college signifying approval of this plan for fulfilling the requirements for the degree. Any student failing to receive his degree under this arrangement will not be admitted to the second year of the medical course.
3. Persons who, while not possessing a Bachelor's degree, give evidence by examination that they have acquired an equivalent education and a training sufficient to enable them to profit by the instruction offered in the Medical College. This rule is intended to apply to students of foreign universities.

The basic premedical requirements which all students must fulfill to qualify for admission to the study of medicine in New York State are set forth in the "Regulations of the Commissioner of Education." In conformity with these regulations, Cornell University Medical College requires for admission the satisfactory completion of at least 6 semester hours in each of the following subjects: English, physics, biology or zoology, general chemistry, and organic chemistry.

Although the requirements outlined above form the basis of eligibility for admission to the medical course, they should be considered as representing the irreducible minimum. The list contains a total of twenty-seven credit points, which probably represent sufficient time to enable the student to obtain a basic preparation in these different fields. In many colleges, however, additional credits in one or more of these departments are required of the candidate in order to satisfy major requirements for the degree. In making the choice of elective courses, consideration should be given to the principle that thorough training in the sciences is essential. On the other hand, choosing too many elective courses in these departments may not provide the most acceptable preparation for medicine, since it tends to limit the time available for study in other departments offering work of a broad educational value. Students planning to study medicine should bear in mind that bacteriology, immunology, human physiology, and abnormal psychology are properly subjects of the medical and not of the premedical curriculum. In planning premedical work students are advised to elect

subjects which will lay a broad foundation for medical study rather than to anticipate courses required as a part of the medical curriculum.

Each year the Admissions Committee selects an entering class of approximately 84 students from a group of more than 1000 applicants. The members of the committee are keenly aware of their serious responsibility in selecting students who have the native ability, traits of character, soundness of personality, and adequate financial responsibility that will enable them to finish satisfactorily their course in the Medical College. A serious obligation to society is also acknowledged by a medical school. It must graduate only those persons who can be expected, with reasonable certainty, to do creditable work in some field of medicine after graduation. The Admissions Committee selects from all applicants those who seem best to fulfill such requirements.

In selecting a relatively small class from a large group of well qualified applicants, the Committee is mindful of the sound and liberal traditions of Cornell University. They attempt to select well qualified students with varied backgrounds—from various geographic areas, from different socio-economic groups, and from varying types of educational institutions. As to grade averages, the Committee needs to satisfy itself that the applicant's scholastic record, both as to courses taken and grades received, gives reasonable assurance that the individual can do the medical curricular work without undue difficulty. Grading systems vary so much from school to school that no specific grade can be categorically stated as minimally acceptable. To be accepted for admission a student must have a satisfactory scholastic record. Beyond that, grades are considered less important than the personal attributes—emotional stability, sound character, healthy personality, intellectual maturity, strong motivation, and ability to cooperate. The Medical College Admission Test results are helpful in appraising an applicant's academic ability. No one pattern of extracurricular activities is considered more meritorious than another. The Admissions Committee looks at each applicant as a total individual, insofar as that is possible with the information obtainable. Those applicants are considered acceptable who have the qualities, abilities, and capabilities considered necessary in a person who hopes to become a physician. Eligibility for admission is determined without regard for race, creed, color, religion, or national origin. Admission policies are in conformity with the policy of the state in regard to the American ideal of equality of opportunity as embodied in the Education Practices Act.

As a general rule the courses given in professional schools of pharmacy, veterinary medicine, optometry, agriculture, and the like are not considered as fulfilling adequately the admission requirements.

APPLICATIONS FOR ADMISSION

All requests for application forms and inquiries regarding dates for submitting applications should be addressed to the Committee on Admissions, 1300 York Avenue, New York 21, N.Y. In making application for admission, the regular form issued for this purpose must be filled out and submitted to the Office of Admissions. Candidates are accepted for only one class in advance. With the large number of students making application in recent years, it has been necessary to assign a definite period for distributing application forms. For a class entering in September of a certain year, the application forms may be obtained on request, beginning July 1 of the previous year. Applications should be

completed during the fall, and no application will be accepted after December 15. A charge of \$10 is made for submitting an application. This fee should be made payable to Cornell University Medical College in the form of a check or money order and *is not returnable*.

Applications are passed upon by the Committee on Admissions after all credentials have been filed. As soon as the Committee takes favorable action upon an applicant, a letter of acceptance is forwarded to him, and the accepted applicant is required to make a deposit of \$50 within a specified time. This deposit is not returnable but is credited toward the first tuition payment. If the accepted student fails to make the deposit in the stipulated time, he forfeits his place on the class roll.

It is impossible for the Committee on Admissions to hold personal conferences with all candidates for admission as the number is too great; therefore the invitations for interview are decided by the Committee. However, any student attending a college at a distance from New York is invited to write to request an interview if he is visiting the New York City area. In such cases every effort will be made to arrange personal conferences with members of the Admissions Committee.

A student who has previously attended another medical school and has been dropped for poor scholarship or unsatisfactory conduct is not an acceptable candidate for admission to any class in Cornell Medical College. It is inadvisable, therefore, for one with this background to go through the formality of submitting an application.

ADMISSION TO ADVANCED STANDING

When vacancies occur, students may be admitted to advanced standing.

Application for a place in one of the upper classes should be filed according to the procedure described for admission to the first year class. Accepted applicants are required to make the deposit of \$50. Applicants must not only furnish acceptable evidence of having satisfactorily completed in an approved medical school all of the work required of students of the class they wish to enter, but also of having completed the conditions of admission to the first year class at Cornell University Medical College. They must present a certificate of honorable dismissal from the medical school or schools they have attended, and they may be required to take examinations in any of the medical courses taken at another school.

Although a certain number of students are regularly admitted from other institutions to enter the third year class at Cornell University Medical College, rarely have there been acceptances made of students to enter the fourth year on the basis of work at another medical school. Candidates seeking admission to the fourth year are required to come before the clinical departments for a thorough examination before final action is taken on their applications.

Persons who have received the degree of Doctor of Medicine at another institution will not be accepted as candidates for this degree at Cornell University Medical College. Likewise, persons who have finished all or part of the course in dentistry and seek a transfer to medicine are discouraged from making application here, since Cornell does not have a department of dentistry and makes no provision for including any teaching in this subject in the medical curriculum.

ADVANCEMENT AND EXAMINATION

The entire medical curriculum is arranged in four courses, or academic years, and the student advances an academic year at a time. It is necessary that he complete all the subjects of a given academic year before taking up the next group of subjects. To be promoted to any of the advanced years (second, third, or fourth), he must be approved for advancement by the faculty.

Any student who by quality of work or conduct indicates an unfitness to enter the profession of medicine may, at the discretion of the faculty, be required at any time to withdraw from the Medical College.

At the close of the academic year examinations are given in all subjects except those extending through a part of the year only, in which examinations may be held at the close of the course in the hours allotted thereto. In making up a student's rating in a given course, all work covered in that subject during the year is taken into account, and due weight is assigned to the effort he puts into his work, his seriousness of purpose, and his scholastic resourcefulness, as well as the results of the final examination.

A final rating is made for each student at the end of the academic year, based on the results of his performance in all courses in the curriculum of that year. These final ratings of students are made on the recommendations of the Committee on Promotion and Graduation; then they are reviewed and formally acted on by the faculty. The faculty ratings classify all students of the medical course under one of four groups as follows:

1. Students with no encumbrances in any subject are recorded as "passed." The rating confers eligibility for re-admission into the Medical College in the next higher class, unless by reason of conduct the faculty considers the student unsuited for the medical profession.

2. Students with an unsatisfactory rating in 40 per cent or more of the required hours in a given year are recorded as "not passed." A rating of "not passed" carries ineligibility for readmission into the Medical College.

3. Students with an unsatisfactory rating in less than 40 per cent of the required hours of a given year are recorded as "conditioned." A "conditioned" student has failures in certain required courses, and he may be re-examined in these subjects, but only after pursuing additional work under the direction of the head of the department in which a failure has occurred. Students who fail on re-examinations are ineligible for readmission into the Medical College, unless under special circumstances they are permitted by the faculty to repeat courses in which their work is deficient.

4. Students with uniformly low grades in most subjects of the course for two years or more are subject to special review by the faculty, and any students with a record of this kind may be deemed unqualified to enter the medical profession. A rating in this group carries ineligibility for readmission into the Medical College.

It is a well-established policy of the Medical College to make no announcement to students of grades received in any subject of the medical course. At the close of every academic year, however, each student is notified of the general level of his scholastic performance for the year.

A transcript of the Medical College record of a student or graduate will be mailed on his request to accredited hospitals and to educational or other well recognized institutions as credentials in support of his application for a position

or promotion. All transcripts are marked "confidential" and carry the instructions that they are not to be turned over to the candidate. This ruling is for the purpose of avoiding possible loss and fraudulent use of an official document of the Medical College. The Medical College makes no charge for sending out transcripts of record.

REQUIREMENTS FOR GRADUATION

The candidates for the degree of Doctor of Medicine must have attained the age of twenty-one years and be of good moral character.

They must have completed successfully four full courses of at least eight months each as regular matriculated medical students, the last of which must have been in Cornell University Medical College. They must have satisfactorily completed all the required work of the medical curriculum and must have passed all prescribed examinations. At the end of the fourth year every student who has fulfilled these requirements will be recommended to the President and Trustees of Cornell University for the degree of Doctor of Medicine.

EXAMINATIONS FOR MEDICAL LICENSURE

Graduates of Cornell University Medical College are admitted unconditionally to the examinations for license to practice medicine in all states of the United States.

Students and graduates of Cornell University Medical College are admitted to the examinations of the National Board of Medical Examiners, whose certificate is recognized by the respective authorities of England, Scotland, and Ireland. Although national in scope and organized under the laws of the District of Columbia, the National Board of Medical Examiners is not to be confused with a federal government agency. For information write to the National Board of Medical Examiners, 133 South 36th Street, Philadelphia 4, Pa.

GENERAL INFORMATION

FEES AND EXPENSES

ALL FEES for instruction and other charges are paid at the Business Office of the Medical College, Room A-131, 1300 York Avenue, New York 21, N.Y.

Veterans receiving federal or state educational benefits are required to report to the Veterans Affairs Office, Room D-115, immediately after registering.

The Board of Trustees of Cornell University reserves the right to change the schedule of fees of the Medical College when deemed expedient.

APPLICATION FEE

A charge made for reviewing an application \$10.00

ACCEPTANCE DEPOSIT \$50.00

Each student admitted is given notice of favorable action on his application and a limited time (usually two weeks) in which to decide if he will enroll in the entering class. His name is not placed on the class list until the acceptance fee is paid. The fee is credited toward the tuition charge and is not returnable if the student fails to enter.

The following tuition and fee rates became effective July 1, 1961:

TUITION FEE (for academic year) \$1,400.00

COMPREHENSIVE FEE (for academic year) \$ 200.00

The charges are payable at the beginning of the academic year, or in three equal parts, the first of which must be made at registration. For fourth year students, the first installment will be due at or before September registration. No refund or rebate will be made in any instance.

Included in the comprehensive fee are the following:

Matriculation Fee

Student Hospitalization Insurance (for calendar year)

This insurance is carried through the Associated Hospital Service (Blue Cross plan) and may be extended to wives and families of married students at additional cost. This insurance plan covers all hospital costs for a limited period of time for any student in good standing who is hospitalized in the New York Hospital. It assures the usual Blue Cross plan coverage for hospitalization in other hospitals.

Student Health Service

Described below.

Graduation Fee and rental fee for cap and gown for graduation exercises.



BOOKS, INSTRUMENTS, AND MICROSCOPES

The average cost of books and instruments is approximately \$135 a year, distributed as follows: first year, \$150; second year, \$215; third year, \$125; fourth year, \$50.

Each student is required to provide himself with a microscope of an approved type. Arrangements can be made to purchase one from the College Book Store after arrival if the student desires. A limited number of monocular microscopes are available for rental at \$30 a year. Anyone wishing to rent one of these microscopes should write to the Admissions Office to make a reservation as early as possible.

RESIDENCE HALLS

F. W. OLIN HALL, student residence, was completed for occupancy in September, 1954. This building was made possible by a generous gift from the Olin Foundation. The residence is located at 445 East 69th Street, directly across York Avenue from the Medical College entrance. It contains a gymnasium, snack bar, lounge rooms, and 278 residence rooms. The Alumni Memorial Room contains the George T. Delacorte, Jr., Book Collection as well as the War Memorial to Cornell graduates who gave their lives in the wars. Each residence room is furnished as a single bedroom-study, but, since each two rooms have a connecting bath, they may be used as a suite for two students if desired. The rooms are completely furnished, and linen service is provided. Rental for students is: for an academic year, \$320; for a full year (12 months), \$375; for periods less than one year, \$45 a month. One floor is reserved for women students, and nonhousekeeping facilities for married students are available. Several cafeterias are available in the main college and hospital buildings.

LIVINGSTON FARRAND APARTMENTS FOR MARRIED STUDENTS, a newly remodeled elevator building at 427 East 69th Street, next to Olin Hall, was opened in 1957. It provides nineteen 1½-room apartments and nineteen 3-room apartments; all apartments are furnished. Rentals for 1½ rooms are \$75 to \$85 per month and for the 3-room apartments, \$115 to \$125 per month.

Two adjacent buildings were remodeled in 1960 for married students. The building at 425 East 69th Street provides twenty two-room apartments, with rentals ranging from \$70 to \$77 per month; all are furnished. The building at 423 East 69th Street provides a total of sixteen two-, three-, and four-room apartments; all are furnished. Rentals range from \$70 to \$77.50 per month for two-room apartments; from \$110 to \$120 per month for three-room apartments; and from \$130 to \$137.50 for four-room apartments.

STUDENT HEALTH SERVICE

Complete ambulatory medical care is provided for all students matriculated in the Medical College and in the Graduate School of Medical Sciences through the Personnel Health Service of the Medical Center. All members of the first year class and students transferred to advanced standing from other colleges are required to have a physical examination by a member of the Health Service staff. In addition each student must report for a chest X-ray examination, tuber-

culin test, and such immunizations as may be considered necessary at periodic intervals. No charge is made for medical care through the Health Service or for any X-rays, laboratory tests, or procedures which may be needed. Each student is required to carry Associated Hospital Service (Blue Cross) hospitalization insurance unless some similar hospitalization insurance is currently in effect through a previous policy. The cost of this insurance for each student is included in the comprehensive fee. Wives and families may be included by the payment of an additional fee. Office hours are held daily from 12:30 to 1:30 p.m. by the student health staff. All cases of illness must be reported to the Health Service. Students may have in attendance physicians of their own choice, but a reasonable amount of cooperation between such physicians and the College Health Service is expected. Wives and families of students are not eligible for care through the Personnel Health Service but will be referred to appropriate members of the hospital staff for medical care.

PRIZES

1. *FOR GENERAL EFFICIENCY.* In commemoration of John Metcalfe Polk, an instructor in this College who was graduated from Cornell University Medical College June 7, 1899, and died on March 29, 1904, prizes will be presented at the end of the fourth year to the three students having the highest standing for the four years' work. Only those who have taken the full course of study at Cornell University Medical College are eligible.

2. *FOR EFFICIENCY IN OTOLARYNGOLOGY.* This prize is made available from the Arthur Palmer Fund provided by the members of the staff of otolaryngology in honor of Dr. Palmer. The prize will be given to the student of the graduating class who makes the best record in this specialty.

3. *FOR EFFICIENCY IN OBSTETRICS.* Two prizes have been endowed by an anonymous donor in recognition of the work of Dr. Gustav Seeligmann, in obstetrics, to be given to the two students of the graduating class who have made the best records in obstetrics.

4. *FOR EFFICIENCY IN GENERAL MEDICINE.* The income from \$1,000 is offered as a prize for general efficiency in the department of medicine, in commemoration of Alfred Moritz Michaelis, who was graduated from Cornell University Medical College on June 11, 1925, and who died during his internship at Mt. Sinai Hospital, April 24, 1926. Presented at the end of the fourth year to a member of the graduating class who has pursued the full course at Cornell University Medical College.

5. *THE MARY ALDRICH FUND.* In memory of William Mecklenburg Polk, M.D., LL.D., first dean of the Medical College, two prizes are offered for proficiency in research to regularly matriculated students of the Cornell University Medical College, the first of \$150, and the second of \$50. Members of all classes are eligible for these prizes.

The awards are made at the end of each academic year for the best report presented in writing of research work done by students, or for valuable reviews and logical presentations on medical subjects not to be found fully considered in a single text or reference book. If the papers submitted are not considered worthy of special commendation, the prizes will be withheld.

Papers are submitted in quadruplicate in a sealed envelope marked "Dean William Mecklenburg Polk Memorial Prize Committee" and must be in the Administration Office not later than three weeks prior to the end of each academic year.

The committee of awards for this prize consists of two members of the faculty from laboratory departments and two from clinical departments.

For 1962 the William Mecklenburg Polk Prize awards for research were:

First prize: Andrew H. Littell, Jr.

Second prize: George H. McCracken, Jr.

6. *THE WILLIAM C. THRO MEMORIAL FUND*. Established in memory of William C. Thro of the class of 1901 whose all-absorbing interest in and devotion to clinical pathology found expression in the teaching and practice of this subject in his alma mater continuously from 1910 to 1938. The prize award is to be given to the student showing the best record in the course in clinical pathology. The candidate for the prize is to be recommended by the professor of clinical pathology and the award made by the Committee on Prizes and Scholarships.

7. *THE HERMAN L. JACOBUS PRIZE IN PATHOLOGY*. Established in 1945 by a gift from Dr. Lawrence Jacobus and his friends in memory of his son, who was killed in action in the Netherlands on September 28, 1944. Dr. Herman L. Jacobus was a member of the class of 1939. The income of the fund is available annually to the student of the third or fourth year class who, in the opinion of the staff of the department of pathology, merits recognition for high scholastic attainments and outstanding performance in the subject of pathology. If in any year no student merits the distinction the award will be withheld.

8. *THE BORDEN UNDERGRADUATE RESEARCH AWARD*. The terms of this grant by the Borden Company Foundation, Inc., provide for awards of \$500 during any one calendar year for a period of five years. The award will be made under the following terms and conditions:

1. All persons in the graduating class of the Medical College of Cornell University who, during any year while enrolled in the College, have carried out undergraduate research in the medical field shall be eligible for the Borden Undergraduate Research Award in Medicine. The award shall be presented at the time of his graduation to that eligible person whose research has been determined by the Medical College to be the most meritorious performed by all similarly eligible persons. Originality and thoroughness of research shall be of primary consideration.

2. In the event that the Dean shall find it inappropriate to make the award in any one year, the award may be deferred to another year. Only one award, however, will be made during any one calendar year.

Papers submitted for this prize should be in quadruplicate and must be in the Administration Office not later than three weeks before the end of the term.

The Borden Prize for Research for the year 1962 was awarded to Daphne Kean Hare.

9. *THE GOOD PHYSICIAN AWARD*. A silver desk tray, suitably inscribed, given by Dr. Philip Stimson, will be awarded at Commencement to that member of the graduating class who, by vote of the class, best exemplifies the intangible qualities of "*The Good Physician*."

10. *CHARLES L. HORN PRIZE FUND.* The income from this fund will be awarded each year to the member of the graduating class who has demonstrated the most improvement in scholarship in the course of four years of study in the Medical College.

11. *THE SAMUEL HOLLANDER PRIZE.* The income from a fund established by bequest of Dr. Samuel Hollander is to be awarded to a worthy medical student as a prize for scholarship by the Committee on Scholarships.

12. *THE GUSTAVE J. NOBACK MEMORIAL FUND IN ANATOMY.* Established in 1962 in memory of Dr. Gustave J. Noback, who will be remembered for his great kindness and generosity to all his students, and also as a research worker and a sculptor. The income of this fund is to be awarded yearly at the discretion of the professor in charge to a student who has performed outstanding work in anatomy. This fund is made possible by the generosity of a student who wishes to remain anonymous.

SCHOLARSHIPS

1. *THE JOHN METCALFE POLK SCHOLARSHIP.* A gift under the will of William Mecklenburg Polk, the first Dean of the Medical College, is awarded annually by the faculty. The scholarship amounts to about \$200 a year.

2. *THE THORNE SHAW SCHOLARSHIP FUND.* This fund provides three scholarships designated as:

First: A scholarship of approximately \$400 available to students after at least two years of study in the Medical College.

Second: Two scholarships of approximately \$200 each available to students after at least one year of study in the Medical College.

These scholarships are awarded by the faculty upon nomination by the Committee on Scholarships and Prizes. They are awarded annually in June and are for one year only. Students receiving the scholarships are notified of the award at the end of the session.

3. *MARY F. HALL SCHOLARSHIP.* The income, amounting to about \$180 annually, from a fund established by bequest of Miss Mary F. Hall, is available to any woman student in Cornell University Medical College who needs its aid and who is a bona fide resident of the State of New York and was such prior to admission to the College.

4. *THE 1936 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.* A five thousand dollar fund established in 1936, the income from which is annually available to meritorious students who need its aid, and who have completed one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

5. *THE 1939 JOHN AND KATHERINE MAYER SCHOLARSHIP FUND.* A five thousand dollar fund established in 1939, the income from which is annually available to meritorious students who need its aid, and who have com-

pleted one or more years of the regular medical course. The award is for one year only, but tenable for a second or third year providing the qualifications of the candidate merit a re-award. If during any year the income from the fund is not used as stated above, then it may be used for such research work, or otherwise, as in the judgment of the faculty (or trustees) may be deemed best.

6. *THE JEREMIAH S. FERGUSON SCHOLARSHIP*. Established in memory of Jeremiah S. Ferguson, who throughout his long connection with the Medical College, of somewhat more than forty years, devoted much effort to helping students with their individual problems and promoting their professional careers. The fund amounts to \$5,000, the income from which, approximately \$200 a year, is awarded annually by the Committee on Scholarships and Prizes to a student or students in the third or fourth year classes in the Medical College who are in need of financial aid and who by conduct and scholarship have proved worthy investments.

7. *THE CHARLES RUPERT STOCKARD SCHOLARSHIP*. A ten thousand dollar fund was established in 1939 by a friend of the late Charles Rupert Stockard, professor of anatomy in the Cornell University Medical College, 1911-1939. The interest of this fund is to be awarded either to one student (approximately \$400) or to two students (approximately \$200 each) who have shown promise in the work in the department of anatomy and who are desirous of doing advanced work in this department. The scholarships are to be awarded by the Executive Faculty upon nomination by the head of the department of anatomy.

8. *THE DR. JOHN A. HEIM SCHOLARSHIPS*. Established under the will of John A. Heim of the class of 1905 to provide such number of scholarships in the Medical College as there shall be funds available for that purpose. The awards are to be made to regularly matriculated medical students who are in need of financial assistance, as provided for in the terms of the bequest.

First year students are eligible, provided they meet the standards prescribed.

9. *THE DR. CHARLES I. HYDE '10 AND EVA HYDE SCHOLARSHIP FUND*. Established in memory of their daughter, Anita Shirley Hyde. The terms of this endowment provide that the income be available annually to meritorious students who have completed one year of the regular medical course and are in need of assistance. The income from this endowment amounts to about \$100 yearly.

10. *THE DR. JACQUES SAPHIER SCHOLARSHIP FUND*. Established in memory of Dr. Jacques Conrad Saphier (Lieutenant, j.g., USNR) of the class of 1940, who was killed in action on August 21, 1942, at Guadalcanal while in the performance of his duty. The income from this fund shall be awarded annually to a meritorious student of the Cornell University Medical College who has completed at least one year of work, who needs its aid, and who, in the opinion of the faculty, merits the recognition for which this scholarship was established.

11. *THE ELISE STRANG L'ESPERANCE SCHOLARSHIP* was established by a bequest from Dr. L'Esperance to provide financial assistance for women students at Cornell University Medical College.

12. *THE SAGAN FOUNDATION SCHOLARSHIP*. An annual scholarship

of \$500 to be awarded to a student in Cornell University Medical College, to be selected by the College on the basis of scholarship and need, without reference to race, color, sex, or creed. A special blank issued by the Sagan Foundation should be obtained from the Dean's Office by students making application for this scholarship.

13. *RUTH HOLLOHAN SCHOLARSHIP FUND.* This fund was established by the terms of the will of Jessie L. Hollohan in memory of Ruth Hollohan. The income is to be used for scholarships for students in the Medical College, with first consideration to be given to entering students of good scholarship who are in need of financial assistance.

14. *THE WALLACE D. GARRABRANDT SCHOLARSHIP.* Established by Mabel G. Gormley. This scholarship, amounting to approximately \$200, is to be awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship who is in need of financial assistance.

15. *LEONA E. TODD SCHOLARSHIP.* Under the terms of the will of Alzina T. Elliott, a scholarship has been established for women students in the Medical College. The income from the gift is approximately \$800 per year.

16. *FUND FOR TRAINING IN PSYCHIATRY.* A grateful patient, recognizing the value of psychiatric therapy in helping people achieve life more abundantly, has established this fund to provide financial assistance to students preparing for a career in psychiatry. Students who seriously intend to enter the field of psychiatry, and who are judged qualified by the faculty, are eligible for financial aid after the second year of the medical course. Financial assistance may also be given in support of graduate or postgraduate training in the Payne-Whitney Psychiatric Clinic.

17. *DR. E. COOPER PERSON MEMORIAL SCHOLARSHIP FUND.* Friends of the late Dr. Person established this scholarship fund in his memory. Scholarship aid for deserving students is provided from the income.

18. *LILLIAN M. CHARLES SCHOLARSHIP FUND.* This fund was established by a generous gift from Mrs. Howard W. Charles. The income will provide scholarship assistance for needy students who are in good academic standing.

19. *VIVIAN B. ALLEN SCHOLARSHIP.* Through the generosity of the Vivian B. Allen Foundation, Inc., this endowment has been established to aid needy male students of good scholastic standing who otherwise would not be able to complete their medical education.

20. *MARY LOUISE WUESTER SCHOLARSHIP.* Established in memory of his mother by Dr. William O. Wuester. The income of this fund is awarded annually by the Committee on Scholarships to a regularly matriculated medical student of good scholarship in need of financial aid.

21. *ROBERT E. SPENO SCHOLARSHIP.* Established in 1952 by gift from Frank Speno in memory of his son, Robert E. Speno. A room in F. W. Olin Hall is named the Robert E. Speno Room, and income from the endowment provides a room-rent scholarship.

22. *ELIZABETH AND NEILL HOUSTON SCHOLARSHIP.* Established in 1952 by a gift from Elizabeth and Neill Houston. A room in F. W. Olin Hall

is designated the Elizabeth and Neill Houston Room, and income from the endowment provides a room-rent scholarship.

23. *DR. HARRY ENO SCHOLARSHIP ENDOWMENT*. Established in 1955 by gift of Dr. Harry Eno, the income to provide scholarships for needy and worthy students in the Medical College.

24. *TUITION AID FOR ENTERING STUDENTS*. A limited amount of scholarship assistance is available for entering students. The need for scholarship assistance should be discussed at the admissions interview, and inquiries about this aid should be directed to the Admissions Committee chairman.

25. *THE JOSEPH P. FERRIGAN FUND*. The income from this fund is to be used to benefit a worthy and meritorious student in need of financial assistance.

26. *THE THOMAS RENNIE SCHOLARSHIP FUND*. Friends of the late Dr. Rennie, Professor of Social Psychiatry, have set up a fund, the income from which is available to students interested in carrying out research work in social psychiatry.

27. *THE DR. GEORGE A. AND NORA W. NEWTON SCHOLARSHIP*. The Newton Scholarship Fund provides a full or partial scholarship for a needy and worthy student of the Medical College. The recipient is to be selected by the Faculty Committee on Scholarships on the basis of high scholarship and character.

28. *THE COPPERMINES FOUNDATION SCHOLARSHIP*. Endowed by a generous gift from the Coppermines Foundation, Inc., to provide financial assistance for needy and worthy students.

29. *THE MARY E. C. CANTLE SCHOLARSHIP FUND*. This fund was established by a bequest from Mary E. C. Cantle. The income will provide scholarships for worthy students in the Medical College.

30. *MR. AND MRS. BENJAMIN J. LEVY SCHOLARSHIP*. This fund was established by Mr. and Mrs. Benjamin J. Levy to provide financial assistance for worthy and needy medical students.

31. *AVALON FOUNDATION SCHOLARSHIP FUND*. This fund was established by a grant from the Avalon Foundation. It is available for students in good academic standing who are in need of financial assistance.

32. *THE MARY PUTNAM JACOBI—ANNA FOREST ROWE SCHOLARSHIP*. A bequest from William Vincent Rowe endowed this fund. The income will provide scholarship assistance preferably for women medical students.

33. *JUDGE AND MRS. SAMUEL JORDAN GRAHAM MEMORIAL SCHOLARSHIP FUND*. This fund was established by a bequest from the estate of E. Norma P. Graham; it provides scholarship assistance for deserving students of the Medical College.

34. *THE SIEGFRIED AND JOSEPHINE BIEBER SCHOLARSHIP FUND*. This fund was established by generous gifts from Mrs. Siegfried Bieber and the Siegfried and Josephine Bieber Foundation. The income will provide scholarships for students in good academic standing who need financial aid.

35. *DR. EDWARD HOENIG SCHOLARSHIP FUND*. This scholarship was established by gifts from Dr. Robert Hoenig '34 and Dr. Theodore Hoenig '40,

in memory of their father, Dr. Edward Hoenig, '10. The income is to provide financial assistance for needy but worthy students.

BURSARY FOR WOMEN STUDENTS

THE MARIE AND JOHN ZIMMERMAN FUND. A sum from this fund will be available this year to certain women students as a memorial to Marie Zimmerman, Sr. The candidates will be chosen in accordance with the purposes of the donor as set forth in the following terms:

"It is the desire of the Fund that Dr. Connie M. Guion and the Associate Dean assign the proceeds of the donations to one or more women medical students who are financially in need of assistance and whose academic standing leads them to believe that the recipients of the awards will make a success in their profession."

The objectives and method of assigning these awards will follow the principles accompanying the donations received during the present year.

LOAN FUNDS

1. *THE 1923 LOAN FUND.* The income from this fund amounts to \$350 a year and is available as a loan to students needing financial assistance, preferably to a third year student.

2. *ALUMNI ASSOCIATION LOAN FUNDS.* The Alumni Association of the Medical College is able to aid a few students in meeting their expenses by the Jessie P. Andresen Memorial Fund and the Class Student Loan Funds. The loans made from these funds will be administered by the Board of Directors of the Alumni Association. The Medical College is consulted in making these awards. Students in the upper classes will be given preference.

3. *STUDENT LOAN FUND.* A revolving fund contributed through different sources including the Kellogg Foundation, the Charles Hayden Foundation, and the Student Book Store is available to students in all classes who are in need of assistance. Every effort is made within the limitations of the financial structure of the institution to help students who by reason of unforeseen circumstances get into money difficulties. A special committee considers each case on its individual merits. A student having indebtedness to the Medical College in other ways than formal loans is ineligible for graduation.

4. *JOSEPH C. HINSEY LOAN FUND.* Established through the generosity of the Olin Foundation, and supplemented by a generous gift from an anonymous donor, this revolving fund is used to advance funds on a loan basis to students in need of financial assistance.

ALPHA OMEGA ALPHA

Alpha Omega Alpha is a nonsecret Medical College honor society, membership in which is based upon scholarship, moral qualifications being satisfactory. It was organized at the College of Medicine of the University of Illinois, Chicago, August 25, 1902. A.O.A. is the only order of its kind on this continent.

Elections are made from students who have fully completed two years of a four year curriculum, by unanimous vote of the active members acting on recommendations made by faculty advisers. Not more than one-sixth of any class

may be elected. As aspects of and indispensable to true scholarship are included open-mindedness, individuality, originality, demonstration of studious attitude, and promise of intellectual growth.

The Cornell chapter of A.O.A. was organized May 2, 1910. A large number of the faculty are members. The chapter sponsors an annual open lecture delivered in the Medical College Auditorium on a cultural or historical phase of medicine.

Members elected from the graduating class of 1962 were: Robert W. Brennan, Peter G. Carnesale, William R. Hazzard, Julian T. Hoff, Gary Korenman, Gerald L. Mandell, George H. McCracken, Jr., Laurance B. Nilsen, Dennis D. O'Keefe, George A. Omura, S. Kirby Orme, Barry R. Tharp, Barth Vander Els, and Sara D. Winter.

SIGMA XI

Sigma Xi, a national honorary society devoted to the encouragement of scientific research, was founded at Cornell University at Ithaca in 1886. An active branch of the Cornell chapter is maintained at the Medical College. Many members of the faculty and research staff are members of Sigma Xi and share in the activities of the Cornell chapter. Medical students are eligible for election to membership in Sigma Xi on the basis of proved ability to carry on original medical research and on nomination by active members of the Cornell chapter.

CORNELL UNIVERSITY MEDICAL COLLEGE ALUMNI ASSOCIATION, INC.

OFFICERS

David D. Thompson '46	<i>President</i>
George Schaefer '37	<i>Vice President</i>
Frederic T. Kirkham, Jr. '47	<i>Secretary</i>
Richard R. McCormack '41	<i>Treasurer</i>
William A. Barnes '37	<i>Chairman Alumni Fund</i>
Bernice E. Sheldon	<i>Executive Secretary</i>

DIRECTORS

<i>Three Year Term:</i>	Eric T. Carlson '50; J. James Smith '38
<i>Two Year Term:</i>	Carleton M. Cornell '37; Roy C. Swan '47
<i>One Year Term:</i>	Robert L. Cavanaugh '34; Edward J. Hehre '37; Ward D. O'Sullivan '42; John P. West '32

BULLETIN

Richard T. Silver '53	<i>Editor</i>
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Each graduate of Cornell University Medical College is automatically considered a member of the Alumni Association, and the dues are \$10 a year. The activities of the Association include a quarterly publication, an annual banquet, student and faculty parties, student loan funds, and an employment bureau. The Association maintains an office at 1300 York Avenue.

An annual appeal for funds for the use of the Medical College is made to members of the Association.

EDUCATIONAL POLICIES AND PLAN OF INSTRUCTION

THE MEDICAL COLLEGE is divided into twelve major departments, seven of which are primarily concerned with the sciences underlying clinical medicine. They are anatomy, biochemistry, physiology, microbiology and immunology, pathology, pharmacology, and public health. Five departments have as their major functions the study, treatment, and prevention of human diseases, and maternity care. These are medicine, surgery, pediatrics, psychiatry, and obstetrics and gynecology.

The heads of these major departments, together with the President of the University and the Dean, constitute the Executive Faculty, which is responsible for the educational policies of the College.

Courses required to be completed by each student before the degree of Doctor of Medicine is conferred by Cornell University are offered by each department. These courses are arranged, in their sequence and duration, to develop logically the knowledge and training of students and to build up gradually the requirements needed for graduation as Doctor of Medicine. The various departments also offer courses and opportunities for special study open to regular medical students, to candidates for advanced degrees in the Graduate School of Cornell University, and to qualified advanced students of medicine not candidates for degrees.

Medical knowledge is so extensive that only a small part of that needed for a successful career in medicine can be acquired during the time devoted to medical study by the medical college curriculum. The time devoted by the prospective physician to his preparation for the practice of medicine includes at least one and often many more years of graduate medical education as intern or resident of a hospital, either in clinical or laboratory work or both. The required period of study at Cornell University Medical College extends over four academic years of at least thirty-three weeks each.

As medical science and medical practice may be pursued in a variety of ways, it is the policy of the College to encourage the student to vary his course of study according to his special interests and particular talents as far as is consistent with meeting the requirements for the degree of Doctor of Medicine.

A thesis is not required for the degree of Doctor of Medicine, but students are encouraged to engage in individual work as far as their time permits, with the hope that they may accomplish results worthy of publication. It is desirable, therefore, for some students to devote all their free time to a single subject in which they have a special interest.

The development of technical and scientific proficiency in the various special fields of clinical medicine is not encouraged during the regular medical course but must await adequate training after graduation.

The first year of study is devoted to anatomy, biochemistry, physiology, and psychobiology.

In the second year the student takes up work in microbiology, parasitology, pathology, pharmacology, physical diagnosis, psychiatry, neurology, clinical pathology, and public health.

During the third and fourth years, students are divided into small groups for practical work in the various clinics and for elective work. The third year class meets daily for clinical lectures and demonstrations.

ELECTIVE TIME

In addition to scheduled free time in the curriculum for the first three years, elective time is available in the second and fourth years. In the second year, five half-days in the third trimester have no scheduled classes and may be used to pursue elective courses of special interest to the student, or for individual research.

A five-month period of experience in investigative work is available for the student who wishes to continue during the summer a research project begun in the second year elective time.

SUMMER FELLOWSHIPS

Several fellowships paying a stipend of \$600 are available for selected students who wish to participate in investigative work during the summers following the first and second years.

ONE YEAR RESEARCH FELLOWSHIPS

Any student seriously interested in investigative work in the basic or clinical medical sciences may apply for a year's leave of absence to pursue research in the field of his choice. Such research opportunities are available in all departments of the Medical College, and a leave will be considered for investigative work in other institutions. A number of fellowships are available to support such work. In general, it is most convenient to take the leave between the second and third years, but it may be considered at other times in the medical course.

COURSE IN MEDICAL WRITING

LECTURER: Milton L. Zisowitz

A series of lectures on medical writing is given one or more times each year. The course is open to faculty, students, and other interested members of the Center. Students are urged to take advantage of this unique opportunity for expert instruction in science writing by attending one of the series of lectures.

Mr. Zisowitz is also available, by appointment, to give editorial advice on the preparation of medical papers.

The faculty expressly reserves the right to make alterations in the curriculum whenever advisable and without previous notice to students.

DESCRIPTION OF COURSES

ANATOMY

ROY C. SWAN, Professor of Anatomy

JOSEPH C. HINSEY, Professor of Neuroanatomy

GEORGE B. CHAPMAN, Associate Professor of Anatomy

WILBUR D. HAGAMEN, Associate Professor of Anatomy

JOHN MACLEOD, Associate Professor of Anatomy

LEONARD L. ROSS, Associate Professor of Anatomy

DOROTHEA BENNETT, Assistant Professor of Anatomy

DANA C. BROOKS, Assistant Professor of Anatomy

JOHN T. FINKENSTAEDT, Assistant Professor of Anatomy

NAOMI FITCH, Assistant Professor of Anatomy

WILLIAM A. GEOHEGAN, Clinical Assistant Professor of Anatomy

ERNEST W. LAMPE, Clinical Assistant Professor of Anatomy

BETTISON E. SHAPIRO, Clinical Assistant Professor of Anatomy

Instructors:

Sukhdev R. Bawa

Donald A. Fischman

Katherine M. Lyser

Thomas H. Meikle, Jr.

Benjamin D. Stinson

Clinical Instructor: Thane Asch

Research Associate: Eva L. Weinreb

Research Fellows: Krystyna Ansevin

Takashi Yamadori

Assistant: Lewis G. Tilney

The study of human structure as a basis for the study and practice of medicine begins in the first trimester of the first year with courses in gross, microscopic, and developmental anatomy and genetics. Gross anatomy is most effectively studied by regions; microscopic and developmental anatomy, by functional or structural systems. The correlation of understanding of structure gained from these courses is encouraged by participation of certain staff members in two or more of the courses. The developmental basis for gross and microscopic structure and its variations is emphasized. The study of the structure of the brain and spinal cord begins in the second trimester and is coordinated with a study of the central nervous system through the cooperation of the staffs of the Departments of Anatomy and Physiology. The application of anatomical knowledge in diagnosis and treatment in medicine is demonstrated through clinical conferences and case presentations.

MICROSCOPIC ANATOMY . . . Selected concepts of fine structure as developed through light and electron microscopy, histochemistry, ultracentrifugation, X-ray diffraction analysis, tissue culture, and autoradiography are presented in lecture to indicate a pattern of study and depth of analysis which the student

can be expected to apply to his informal study of cells and tissues not formally presented in lectures. A more comprehensive and systematic study of fine structure is made in the laboratory through a study of a loan collection of histological sections and electron micrographs, and through microscopic study of surviving tissues and cells. Modern research techniques in microscopy, microtomy, histochemistry, tissue culture, and autoradiography are demonstrated. The functional and biochemical significance of fine structure is emphasized. Laboratory and lectures, 165 hours.

GROSS ANATOMY . . . Regional anatomy is studied principally through a thorough dissection of the human body. Lectures present selectively the more difficult regions and systems. Demonstration dissections and films supplement. Structural relations are also presented and discussed roentgenographically with emphasis on development, individual variation, and developmental abnormalities. Each student is loaned a disarticulated half skeleton and a complete set of normal roentgenograms. Laboratory and lectures, 246 hours.

NEUROANATOMY . . . The gross and microscopic structure of the brain and spinal cord is taught in the laboratory by study of serial sections through the entire brain stem in three different planes. Three-dimensional visualization is facilitated by gross dissection of human and other mammalian brains and use of models. Special emphasis is placed on functional, experimental, and clinical aspects of neuroanatomy, presented in a manual but supplemented by lectures and demonstrations. Elective opportunity is offered for animal experimentation. Laboratory and demonstrations, 84 hours.

DEVELOPMENTAL ANATOMY AND GENETICS . . . Lectures and laboratory are designed to help the student visualize basic embryological relationships and to introduce him to fundamental concepts and problems of human heredity. Lectures in embryology stress those areas of early development, fetal-maternal relations, and organogenesis which clarify aspects of adult function and structure, or which aid in the understanding of clinically important congenital defects. In the laboratory, the least easily visualized aspects of placentation and organogenesis are studied in both gross and serially sectioned material. Lectures in genetics review basic Mendelian principles and extend to modern concepts applied to hereditary anomalies and disease, mutation, cytogenetics, developmental genetics, gene action, and human population genetics. Lecture and laboratory, 77 hours.

ELECTIVE COURSES

A. For second year students, third trimester.

1. Electrical Methods in Neuroanatomical Research. Dr. Brooks.
2. Advanced Genetics. Seminar on special topics in genetics; topic for each semester to be chosen according to special interests and requirements of students. Drs. Bennett and Fitch.
3. Clinical Anatomy. A more selective and intensive dissection of the human body, with emphasis on clinical applications in medicine and surgery. Drs. Lampe and Swan.

B. For fourth year students during elective period.

4. Review Dissection of the Human Body.

GROSS ANATOMY FOR GRADUATES . . . Opportunity will be offered to a limited number of graduates in medicine for dissection of the human body.

COURSE IN SURGICAL ANATOMY . . . An extensive review of surgical anatomy with demonstrations and dissections specially designed for candidates for the American Board of Surgery. The fee, \$200 for a term of four weeks, includes matriculation, registration charges, and tuition. Limited to 25 persons. Dr. Ernest W. Lampe.

ADVANCED STUDY AND RESEARCH . . . Opportunities for first and second year students to devote summer vacations and elective time to supervised study and investigation may be arranged individually with members of the staff. Predoctoral fellowships are available to students considering careers in pre-clinical science and wishing to interrupt their medical studies at the end of their second or third year to devote a full year to research in fine structure, experimental cytology, neuroanatomy, embryology, or genetics.

BIOCHEMISTRY

VINCENT DU VIGNEAUD, Professor of Biochemistry

ROY W. BONSNES, Associate Professor of Biochemistry

JULIAN R. RACHELE, Associate Professor of Biochemistry

WILLIAM D. CASH, Assistant Professor of Biochemistry

HELENA GILDER, Assistant Professor of Biochemistry

S. STEVEN HOTTA, Assistant Professor of Biochemistry

THEODORE A. MAHOWALD, Assistant Professor of Biochemistry

Instructors:

Janardan P. Aroskar

Julius Golubow

Edward T. Schubert

Research Associates:

Esther M. Breslow

W. Y. Chan

Derek Jarvis

Maurice P. Manning

Richard Vierling

Research Fellow:

Luis A. Branda

The instruction in biochemistry is concentrated in the first year and is arranged upon the assumption that the student is already thoroughly grounded in the principles of chemistry and physics. The object is to impart that fundamental knowledge of biochemistry which is necessary to the comprehension of the bearings of chemistry upon medicine.

The schedule during the first and second terms is devoted to an intensive course in general biochemistry by means of lectures, demonstrations, and conferences. During the third term the instruction is centered largely in the laboratory and the conference room where the knowledge gained in the first two terms is consolidated and amplified. Considerable emphasis is laid upon quantitative rather than qualitative laboratory procedures. Throughout these lectures the application of biochemistry to the study of disease and metabolic disturbances is stressed. Collateral reading in biochemical literature is encouraged.

FIRST AND SECOND TERM . . . Lecture and conference course dealing with the chemistry and intermediary metabolism of proteins, fats, carbohydrates, and

purines; enzymes, digestion, intestinal putrefaction, and feces; the composition of the tissues, blood, milk, and urine; hormones and vitamins; the elements of physical chemistry as applied to biology and medicine, with emphasis on the fundamental properties of electrolytes and colloids. 33 hours, first term. 33 hours, second term.

THIRD TERM . . . Laboratory course with lectures and conferences extending the work of the first two terms. 154 hours, third term.

ELECTIVES

ADVANCED LABORATORY WORK OR RESEARCH . . . By special arrangement.

COURSES OPEN TO SPECIAL STUDENTS

BIOCHEMISTRY . . . Fee, \$25 a term.

BIOCHEMICAL LITERATURE . . . Seminar on the current literature in biochemistry, mainly for graduate students but open to a limited number of specially qualified medical students. Hours to be arranged. Professors du Vigneaud and Rachele.

BIOCHEMICAL PREPARATION . . . Laboratory dealing with the isolation, synthesis, and analysis of selected compounds of biological importance. Hours, credits, and fees to be arranged. The staff.

RESEARCH IN BIOCHEMISTRY . . . By arrangement with the head of the department.

MEDICINE

E. HUGH LUCKEY, Professor of Medicine (*Chairman*)

THOMAS P. ALMY, Professor of Medicine

JOSEPH H. BURCHENAL, Professor of Medicine

ANTHONY C. CIPOLLARO, Clinical Professor of Medicine (Dermatology)

JOHN E. DEITRICK, Professor of Medicine

HENRY S. DUNNING, Clinical Professor of Medicine (Neurology)

CLAUDE E. FORKNER, Clinical Professor of Medicine

RICHARD H. FREYBERG, Clinical Professor of Medicine

FRANK L. HORSFALL, Jr., Professor of Medicine

MILTON L. KRAMER, Clinical Professor of Medicine

GEORGE M. LEWIS, Clinical Professor of Medicine (Dermatology)

ADE T. MILHORAT, Clinical Professor of Medicine

CARL MUSCHENHEIM, Clinical Professor of Medicine

RULON W. RAWSON, Professor of Medicine

GEORGE G. READER, Professor of Medicine

J. JAMES SMITH, Clinical Professor of Medicine

ROBERT F. WATSON, Clinical Professor of Medicine

IRVING S. WRIGHT, Clinical Professor of Medicine

JEREMIAH A. BARONDESS, Clinical Associate Professor of Medicine

DAVID V. BECKER, Associate Professor of Medicine

E. LOVELL BECKER, Associate Professor of Medicine

KATHERINE BUTLER, Clinical Associate Professor of Medicine

EUGENE F. COHEN, Clinical Associate Professor of Medicine

FRANK E. CORMIA, Clinical Associate Professor of Medicine (Dermatology)

FARRINGTON DANIELS, Associate Professor of Medicine (Dermatology)

MURRAY DWORETZKY, Clinical Associate Professor of Medicine

RALPH L. ENGLE, Associate Professor of Medicine
 AARON FEDER, Clinical Associate Professor of Medicine
 WILLIAM T. FOLEY, Clinical Associate Professor of Medicine
 SIDNEY M. GREENBERG, Clinical Associate Professor of Medicine
 LAWRENCE E. HINKLE, Jr., Clinical Associate Professor of Medicine
 ELLIOT HOCHSTEIN, Clinical Associate Professor of Medicine
 EDWARD W. HOOK, JR., Associate Professor of Medicine
 MELVIN HORWITH, Clinical Associate Professor of Medicine
 WILLIAM H. KAMMERER, Clinical Associate Professor of Medicine
 DAVID A. KARNOFSKY, Associate Professor of Medicine
 GEORGE L. KAUER, Clinical Associate Professor of Medicine
 B. H. KEAN, Clinical Associate Professor of Medicine (Tropical Medicine)
 FREDERIC T. KIRKHAM, JR., Clinical Associate Professor of Medicine
 GERALD H. KLINGON, Clinical Associate Professor of Medicine
 JOHN S. LADUE, Clinical Associate Professor of Medicine
 ALLYN B. LEY, Associate Professor of Medicine
 ROBERT M. LINTZ, Clinical Associate Professor of Medicine
 MARY H. LOVELESS, Clinical Associate Professor of Medicine
 DANIEL S. LUKAS, Associate Professor of Medicine
 FLETCHER H. McDOWELL, Associate Professor of Medicine (Neurology)
 W. P. LAIRD MYERS, Associate Professor of Medicine *
 THEODORE W. OPPEL, Clinical Associate Professor of Medicine
 MARY ANN PAYNE, Clinical Associate Professor of Medicine
 RALPH E. PETERSON, Associate Professor of Medicine
 R. A. REES PRITCHETT, Clinical Associate Professor of Medicine
 SIDNEY ROTHBARD, Associate Professor of Medicine
 ALBERT L. RUBIN, Associate Professor of Medicine *
 DONALD J. SIMONS, Clinical Associate Professor of Medicine
 MARVIN H. SLEISNGER, Associate Professor of Medicine
 MARTIN SONENBERG, Associate Professor of Medicine
 CHESTER M. SOUTHAM, Associate Professor of Medicine
 ISRAEL STEINBERG, Clinical Associate Professor of Medicine
 DAVID D. THOMPSON, Associate Professor of Medicine
 ALPHONSE E. TIMPANELLI, Clinical Associate Professor of Medicine
 DOUGLAS P. TORRE, Clinical Associate Professor of Medicine (Dermatology)
 PARKER VANAMEE, Associate Professor of Medicine
 BRUCE P. WEBSTER, Clinical Associate Professor of Medicine
 BYARD WILLIAMS, Clinical Associate Professor of Medicine
 FELIX WROBLEWSKI, Clinical Associate Professor of Medicine

 KENNETH C. ARCHIBALD, Assistant Professor of Medicine (Physical Medicine)
 GEORGE C. ARMISTEAD, JR., Clinical Assistant Professor of Medicine
 SAM C. ATKINSON, Clinical Assistant Professor of Medicine (Dermatology)
 NILS U. BANG, Assistant Professor of Medicine
 CURTIS H. BAYLOR, Clinical Assistant Professor of Medicine
 RICHARD S. BENUA, Assistant Professor of Medicine
 BEATRICE B. BERLE, Clinical Assistant Professor of Medicine
 CARL A. BERNTSEN, JR., Clinical Assistant Professor of Medicine
 NORMAN BRACHFELD, Assistant Professor of Medicine
 KEEVE BRODMAN, Clinical Assistant Professor of Medicine
 HENRY A. CARR, Clinical Assistant Professor of Medicine
 AARON D. CHAVES, Clinical Assistant Professor of Medicine
 WILLIAM N. CHRISTENSON, Assistant Professor of Medicine
 BAYARD D. CLARKSON, Assistant Professor of Medicine
 HARVEY S. COLLINS, Assistant Professor of Medicine
 PETER G. DENKER, Clinical Assistant Professor of Medicine (Neurology)
 JOHN W. DOUGHERTY, Clinical Assistant Professor of Medicine (Dermatology)
 WILLIAM J. EISENMENGER, Clinical Assistant Professor of Medicine
 ROSE R. ELLISON, Assistant Professor of Medicine
 ALBERT J. ERDMANN, JR., Clinical Assistant Professor of Medicine
 GEORGE C. ESCHER, Clinical Assistant Professor of Medicine

* On leave of absence.

JOHN T. FARRAR, Clinical Assistant Professor of Medicine
 JOHN A. FINKBEINER, Clinical Assistant Professor of Medicine
 ALVIN H. FREIMAN, Clinical Assistant Professor of Medicine
 CONSTANCE FRIESS, Clinical Assistant Professor of Medicine
 GEORGE W. FRIMPTER, Assistant Professor of Medicine
 HORACE T. GARDNER, Clinical Assistant Professor of Medicine
 WILLIAM GELLER, Clinical Assistant Professor of Medicine
 ROBERT B. GOLDBY, Clinical Assistant Professor of Medicine
 CHARLES H. GOODRICH, Assistant Professor of Medicine
 MARY E. W. GOSS, Assistant Professor of Sociology in Medicine
 THOMAS C. GUTHRIE, Clinical Assistant Professor of Medicine (Neurology)
 SUSAN J. HADLEY, Clinical Assistant Professor of Medicine
 RALPH HEIMER, Assistant Professor of Biochemistry in Medicine
 LEONARD L. HEIMOFF, Clinical Assistant Professor of Medicine
 MILTON HELPERN, Clinical Assistant Professor of Medicine
 LAWRENCE B. HOBSON, Clinical Assistant Professor of Medicine
 EUGENE L. HORGES, Clinical Assistant Professor of Medicine
 HERBERT I. HOROWITZ, Assistant Professor of Medicine
 RAYMOND W. HOUE, Assistant Professor of Medicine
 ABRAHAM S. JACOBSON, Clinical Assistant Professor of Medicine
 GRAHAM H. JEFFRIES, Assistant Professor of Medicine
 LEMOYNE C. KELLY, Clinical Assistant Professor of Medicine
 THOMAS KILLIP III, Assistant Professor of Medicine
 HENRY B. KIRKLAND, Clinical Assistant Professor of Medicine
 SAMUEL S. KOIDE, Assistant Professor of Medicine
 HERBERT KOTEN, Clinical Assistant Professor of Medicine
 O. DHODANAND KOWLESSAR, Assistant Professor of Medicine
 IRWIN H. KRAKOFF, Assistant Professor of Medicine
 HENN KUTT, Assistant Professor of Medicine
 MICHAEL LAKE, Clinical Assistant Professor of Medicine
 RICHARD E. LEE, Clinical Assistant Professor of Medicine
 ROBERT D. LEEPER, Assistant Professor of Medicine
 JERROLD S. LIEBERMAN, Clinical Assistant Professor of Medicine
 MACK LIPKIN, Clinical Assistant Professor of Medicine
 MARTIN LIPKIN, Assistant Professor of Medicine
 DONALD B. LOURIA, Assistant Professor of Medicine
 MELVILLE G. MAGIDA, Clinical Assistant Professor of Medicine
 KLAUS MAYER, Assistant Professor of Medicine
 ABRAHAM MAZUR, Assistant Professor of Biochemistry in Medicine
 A. PARKS McCOMBS, Clinical Assistant Professor of Medicine
 RICHARD R. McCORMACK, Clinical Assistant Professor of Medicine
 ELLEN McDEVITT, Assistant Professor of Medicine
 JAMES F. MCGOVERN, Clinical Assistant Professor of Medicine
 ROBERT H. MELCHIONNA, Clinical Assistant Professor of Medicine
 DANIEL G. MILLER, Assistant Professor of Medicine
 IRWIN NYDICK, Clinical Assistant Professor of Medicine
 NORMAN PLUMMER, Clinical Assistant Professor of Medicine
 J. WILLIAM POPPELL, Assistant Professor of Medicine *
 JAMES W. RALEIGH, Clinical Assistant Professor of Medicine
 JOHN C. RIBBLE, Assistant Professor of Medicine
 JACK RICHARD, Clinical Assistant Professor of Medicine
 EDGAR A. RILEY, Clinical Assistant Professor of Medicine
 WILLIAM C. ROBBINS, Clinical Assistant Professor of Medicine
 THOMAS N. ROBERTS, Clinical Assistant Professor of Medicine
 BERNARD ROGOFF, Clinical Assistant Professor of Medicine
 DAVID M. ROSEMAN, Clinical Assistant Professor of Medicine
 PAUL RUEGSEGG, Clinical Assistant Professor of Medicine
 RICHARD H. SAUNDERS, JR., Assistant Professor of Medicine
 ARTHUR W. SELIGMANN, Clinical Assistant Professor of Medicine
 CHARLES SHEARD, Clinical Assistant Professor of Medicine (Dermatology)
 PAUL SHERLOCK, Assistant Professor of Medicine
 MAURICE E. SHILS, Assistant Professor of Medicine

* On leave of absence.

RICHARD T. SILVER, Clinical Assistant Professor of Medicine
 LAWRENCE S. SONKIN, Clinical Assistant Professor of Medicine
 HERBERT J. SPOOR, Clinical Assistant Professor of Medicine
 NORTON SPRITZ, Assistant Professor of Medicine
 WILLARD H. SQUIRES, Clinical Assistant Professor of Medicine
 HERMAN STEINBERG, Clinical Assistant Professor of Medicine
 PETER E. STOKES, Clinical Assistant Professor of Medicine
 RICHARD W. STONE, Clinical Assistant Professor of Medicine
 JAMES C. STRICKLER, Assistant Professor of Medicine
 WILLIAM D. STUBENBORD, Clinical Assistant Professor of Medicine
 MARGUERITE P. SYKES, Assistant Professor of Medicine
 CORNELIUS H. TRAEGER, Clinical Assistant Professor of Medicine
 CHARLES A. WERNER, Clinical Assistant Professor of Medicine

Instructors:

Ralph A. Baer	Eugene D. Furth	Robert Daniel Roe
J. Robert Buchanan	Richard A. Herrmann	Rolf G. Scherman
Susan T. Carver	Anna Kara	Lawrence Scherr
Burton D. Cohen	Donald Kaye	Michael H. Stone
Roger M. Des Prez	Glenn D. Lubash	Charles K. Tashima
R. Gordon Douglas, Jr.	Gabrielle Reem	David C. Underwood

Clinical Instructors:

Robert R. Abel	John T. Flynn	David W. Molander
Seymour Advocate	Claude E. Forkner, Jr.	Willis A. Murphy
Anthony A. Antoville	Francis J. Gilroy	Walter M. Palmer
Lucien I. Arditi	Selig M. Ginsburg	Artemis G. Pazianos
Olav Austlid	Robert D. Gittler	George E. Peabody
Lloyd T. Barnes	David L. Globus	Francis S. Perrone
Bertrand M. Bell	Oscar E. Goldstein	Aurelia Potor
Bry Benjamin	George W. Gorham	James A. Reilly
Ruth P. Berkeley	Keith O. Guthrie, Jr.	Milton Reisch
J. S. Bernstein	Marshall J. Hanley	Sanford M. Reiss
Harry Bienenstock	Herman G. Helpern	Charles Ressler
Aaron W. Bortin	Raymond B. Hochman	Thomas G. Rigney
Warren S. Braveman	Helene Holtz	Seymour H. Rinzler
Samuel H. Brethwaite, Jr.	Donald W. Hoskins	Julius Rogoff
H. Oliver Brown, Jr.	Robert D. Huebner	Isadore Rosenfeld
John Lyman Brown	John Insolera	Emmanuel Rudd
Veronica C. Brown	Norman J. Isaacs	Paul Saville
Bernerd H. Burbank	Bernard Jaslowitz	Leonard Schuyler
Edward A. Burkhardt, Jr.	Thomas P. Jernigan	Ernest Schwartz
Donald J. Cameron	Lawrence I. Kaplan	Frank A. Seixas
Eric J. Cassell	J. Harry Katz	Edward M. Shepard
Hugh E. Claremont	Bernard Koven	Gerald M. Silverman
Melva A. Clark	Mortimer Lacher	Harry A. Sinclair
Burton D. Cohen	Martha Larsen	Aaron D. Spielman
Josue Corcos	Harold L. Leder	Katharine W. Swift
Denton S. Cox	Burton J. Lee III	Thomas T. Tamlyn
Jean A. Cramer	Dorothea Lemcke	Louis J. Vorhaus II
Richard A. P. Cupiauoli	Leo R. Lese	Harold R. Wainerdi
Jeff Davis	Bruce C. Levy	Milton A. Wald
Marion Davis	Charles M. Lewis	Lila A. Wallis
Peter deNesnera	Marjorie Lewisohn	Clinton G. Weiman
Monroe T. Diamond	John LoVerme	Aaron O. Wells
Carolyn H. Diehl	Norton M. Luger	Carl Wierum
Robert E. Eckardt	John F. Marchand	Florence A. Wilson
George E. Ehrlich	Mark R. Marciano	Arnold L. Winston
Henry R. Erle	Aaron J. Marcus	Edward A. Wolfson
Ernest R. Esakof	Neva Eileen McGrath	Edward L. Worthington
Ralph A. Eskesen	George A. McLemore, Jr.	Alexander W. Young, Jr.
Emil A. Falk	Allen W. Mead	Seymour Zucker

Research Associates:

Antoine Chapman
 Borje E. V. Ejrup

George D. Gammon
 Eleanor E. Deschner Hancock

Margaret E. Todd

Research Fellows:

Robert G. Brayton
 Howard Bronstein
 Luis G. Cadavid
 John Stewart Cameron
 James C. Carver, Jr.
 C. Stephen Connolly
 Joseph Dougherty
 Robert E. Dye
 Elizabeth A. Eilers
 Tuviah Gilat
 Helen Goodell

Seymour Grossman
 Sigurdur R. Gudmundsson
 Bruno Hanhart
 Mary E. Hopper
 Phyllis A. Huene
 Marian Isaacs
 David E. Jenkins
 Clinton N. Levin
 John G. Merselis
 Ralph L. Nachman
 Thomas M. Nall

Maria New
 Margaret Olendzki
 Leon J. V. Richelle
 Kathleen Rives
 Edmund O. Rothschild
 Walter Rubin
 James D. Snell
 Kurt Stenzel
 Stanley S. Weglarz

Assistants in Medicine:

Henriette E. Abel
 Rudolfo Aldana
 Cecil C. Baker, Jr.
 William G. Baker
 Morton Blum
 Kent P. Bradley
 Howard F. Bunn
 Milton F. Campbell
 Joel L. Colker
 Mayer Davidson
 C. Pinckney Deal, Jr.
 F. Curtis Dohan
 Eric Van Eisner
 Stephen E. Epstein
 M. Elaine Eyster
 Thomas Fahey
 Marie J. Ferrari
 Joseph Frascino
 Gordon Frierson
 James Gale

Martin Gardy
 James H. Gault
 Howard Goldin
 Peter C. Harpel
 Carl A. Hedberg
 James R. Hurley
 Gary R. Joachim
 Young Kim
 John Kimball
 Richard L. Klein
 Charles S. Lamonte, Jr.
 Charles N. Leach
 Walter M. Lewis
 Donald N. MacKay
 Robert S. Martin
 Richard W. Miller
 William A. Morgan
 John F. Morris
 Carter G. Mosher
 Raymond E. Phillips

David Rabin
 Herbert I. Rappaport
 Norman Riegel
 Robert C. Riggins
 Richard W. Roberts
 Seymour M. Sabesin
 Bruce I. Saxe
 Ellen Scheiner
 Irwin D. Schlesinger
 Carter Smith, Jr.
 Stojan Solaric
 Chull S. Song
 Sara A. Stoesser
 Robert J. Timberger
 Job Vibal
 Harold J. Wanebo
 Nelson A. Wivel
 David Zakim

Lecturers in Medicine:

William G. C. Munroe (Tuberculosis)
 Robert L. Yeager (Tuberculosis)

Students begin their course in medicine with a required course in clinical pathology given in the second term of the second year under the direction of Dr. Kellner. It consists of lectures and laboratory work. Among the topics discussed are the theory, practice, and application of methods for the examination of urine, blood, sputum, exudates, transudates, spinal fluid, gastric contents, and feces. The methods studied include chemical, morphological, serological, and animal inoculation methods which are of value as diagnostic procedures. Discussion of the clinical significance of findings is included.

An introductory course in methods of clinical examination, commonly called physical diagnosis, is given in the third term of the second year. The subject is introduced by means of lectures, demonstrations, and practical work with normal subjects and patients. Practical work with patients is done on the pavilions of the New York Hospital, Bellevue Hospital, New York Veterans Administration Hospital, and at Memorial Center.

A course in neurologic diagnostic methods is given in the third term of the second year. The work consists of demonstrations and intensive training in the discipline of neurological examination. The students in groups of three or four are assigned to an instructor on the neurology service of Bellevue Hospital. This work coincides in time with the other training in physical diagnosis.

In each of the terms of the third year, one third of the class receives in-patient experience in medicine. The student group is divided equally between the New York Hospital under the direction of Dr. Luckey and Bellevue Hospital under the supervision of Dr. Almy. The medical pavilions of the New York Hospital comprise 126 beds. The Cornell Bellevue Medical Service has approximately 120 teaching beds. The service includes patients with diseases of the nervous system and of the skin. These are under the care of subdepartments which are organized for teaching and clinical research as well as the management of patients. They are therefore analogous to independent departments of dermatology and neurology in other hospitals. An active pulmonary service is functioning in close cooperation with the surgical and pediatric services. There is close cooperation with the department of psychiatry in the study of the neuroses and early manifestations of psychoses found in the wards and out-patient service.

The crux of the student's experience in third year medicine is believed to be his own experience with patients as amplified by reading and by contact with members of the hospital and teaching staff. Through this he learns the methods of patient study crucial in medicine. He is given as much responsibility as is practical, namely, the recording in the hospital records of his own histories and laboratory examinations. These, together with his physical examinations are supervised by tutors, each of whom has responsibility for the supervision of a small group of students. Additional teaching consists of rounds with the visiting and house staff and more formal conferences once a week in which the clerks present cases for criticism and discussion. In these it is attempted to cover the more important fields of internal medicine. The work of the clerkships is supplemented by frequent clinical conferences which are held throughout the academic year. During the clinical clerkship the students receive further training in the evaluation of signs and symptoms of disease of the nervous system.

The instruction of the senior students is conducted in the Out-Patient Department with the intent of offering experience in general medicine, neurology, dermatology, and other medical specialties. Practical work with patients is supplemented by seminars, demonstrations, and specialty conferences. This experience for seniors has been fused with the Medical Comprehensive Care and Teaching Program, description of which will be found below.

Clinical-pathological conferences organized by the department of pathology in conjunction with the clinical departments occur weekly throughout the year.

ELECTIVE EXPERIENCES: Opportunities for elective work and advanced research studies are available to a limited number of students in the following fields: allergy, cardiovascular disease, dermatology, endocrinology and metabolism, gastroenterology, hematology, infectious disease, neuroanatomy, neurology, physical medicine, and renal disease.

MEDICAL COMPREHENSIVE CARE AND TEACHING PROGRAM

The course in comprehensive medicine occupies the major attention of half the senior class during each of the two semesters of the fourth year. It is designed to be a synthesis of the many disciplines to which the medical student has been exposed and, as such, may be considered a laboratory course in patient care.

Both the Medical and Pediatric Clinics have been designated as Comprehensive Care Clinics in which, through the use of consultants, the diagnosis and treatment of patients are carried out with minimal referral to other clinics. In this exercise senior students play a responsible and functioning role.

Social factors in patient care are emphasized through participation of the staff of the New York Hospital social service department. One social worker has been appointed to coordinate the activities of this staff, as well as the services provided by community agencies. Similarly, a public health nurse coordinates nursing activities in the program.

Teaching of preventive medicine is the responsibility of a physician representing the department of public health and preventive medicine.

Emotional aspects of disease are stressed through the participation of a selected group of psychiatrists from the department of psychiatry.

A representative of the department of surgery and one from the department of obstetrics and gynecology provide appropriate consultation services in their specialties to the Comprehensive Care Clinics.

Part-time electives in medical and pediatric subspecialties, psychiatry, and preventive medicine are offered each student in addition to the regular clinic work.

Dr. George G. Reader is in over-all charge of the program and is assisted by three assistant directors, two from the department of medicine together with the staff of the medical outpatient department, and one from the department of pediatrics together with the staff of the pediatric outpatient department.

MICROBIOLOGY AND IMMUNOLOGY

WILLIAM F. SCHERER, Professor of Microbiology and Immunology

JOHN Y. SUGG, Associate Professor of Microbiology and Immunology

IRVING ABRAHAMS, Assistant Professor of Microbiology and Immunology

ROY CLEELAND, Assistant Professor of Microbiology and Immunology

SIDNEY E. GROSSBERG, Assistant Professor of Microbiology and Immunology

WILLIAM M. O'LEARY, Assistant Professor of Microbiology and Immunology

FRED RAPP, Assistant Professor of Microbiology and Immunology

BOB S. ROBERSON, Assistant Professor of Microbiology and Immunology

Lecturer:

Alvin Hollander

The course is presented in the first trimester of the second year and consists of laboratory experiments, lectures, and group discussions. The laboratory work includes an introduction to the procedures used in studying micro-organisms, experiments on the mechanisms of the different kinds of antigen-antibody reactions, the actions of chemotherapeutic agents, a survey of the microbial flora of the upper respiratory and lower intestinal tracts of healthy humans, and an

intensive study of the causal agents of specific infections, including fungi, spirochetes, rickettsiae, and viruses, as well as bacteria. The lectures are directed toward the development of basic concepts, particularly the principles involved in microbial growth, the principles underlying active immunization, and the factors that enter into host-parasite relationships. Emphasis is placed on aspects related to the etiology, pathogenesis, epidemiology, and prevention of infectious disease; special attention is given also to the immunological principles involved in the various manifestations of hypersensitiveness that occur in disease conditions of noninfectious origins.

ELECTIVE COURSES . . . Opportunities for advanced research studies in bacteriology, mycology, virology, immunology, or microbial biochemistry are provided to a limited number of students who wish to devote their elective time to studies in these subjects.

OBSTETRICS AND GYNECOLOGY

R. GORDON DOUGLAS, Professor of Obstetrics and Gynecology (*Chairman*)

JOSEPH F. ARTUSIO, JR., Professor of Anesthesiology in Obstetrics and Gynecology

EDWARD H. DENNEN, Clinical Professor of Obstetrics and Gynecology

RALPH W. GAUSE, Clinical Professor of Obstetrics and Gynecology

CHARLES M. McLANE, Clinical Professor of Obstetrics and Gynecology

JOSEPH N. NATHANSON, Clinical Professor of Obstetrics and Gynecology

FRANK R. SMITH, Clinical Professor of Obstetrics and Gynecology

THOMAS L. BALL, Clinical Associate Professor of Obstetrics and Gynecology

ROY W. BONSNES, Clinical Associate Professor of Biochemistry in Obstetrics and Gynecology

E. WILLIAM DAVIS, JR., Clinical Associate Professor of Obstetrics and Gynecology

THOMAS F. DILLON, Clinical Associate Professor of Obstetrics and Gynecology

RANDOLPH GEPFERT, Clinical Associate Professor of Obstetrics and Gynecology

WILLIAM P. GIVEN, Clinical Associate Professor of Obstetrics and Gynecology

OSCAR GLASSMAN, Clinical Associate Professor of Obstetrics and Gynecology

ARTHUR V. GREELEY, Clinical Associate Professor of Obstetrics and Gynecology

GRAHAM G. HAWKS, Clinical Associate Professor of Obstetrics and Gynecology

CARL T. JAVERT, Clinical Associate Professor of Obstetrics and Gynecology

DONALD G. JOHNSON, Clinical Associate Professor of Obstetrics and Gynecology

ELMER E. KRAMER, Clinical Associate Professor of Obstetrics and Gynecology

ROBERT LANDESMAN, Clinical Associate Professor of Obstetrics and Gynecology

EDWARD C. MANN, Clinical Associate Professor of Obstetrics and Gynecology

BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Obstetrics and Gynecology

NELSON B. SACKETT, Clinical Associate Professor of Obstetrics and Gynecology

GEORGE SCHAEFER, Clinical Associate Professor of Obstetrics and Gynecology

WILLIAM J. SWEENEY, Clinical Associate Professor of Obstetrics and Gynecology

HUGH R. K. BARBER, Clinical Assistant Professor of Obstetrics and Gynecology

STANLEY J. BIRNBAUM, Clinical Assistant Professor of Obstetrics and Gynecology

ALFRED BROCKUNIER, Clinical Assistant Professor of Obstetrics and Gynecology

MYRON I. BUCHMAN, Clinical Assistant Professor of Obstetrics and Gynecology

JUSTIN CALLAHAN, Clinical Assistant Professor of Obstetrics and Gynecology

JOHN T. COLE, Clinical Assistant Professor of Obstetrics and Gynecology

ROBERT L. CRAIG, Clinical Assistant Professor of Obstetrics and Gynecology

DAVID B. CRAWFORD, JR., Clinical Assistant Professor of Obstetrics and Gynecology

WILLIAM F. FINN, Clinical Assistant Professor of Obstetrics and Gynecology

BERNARD NATHANSON, Clinical Assistant Professor of Obstetrics and Gynecology

MELVILLE A. PLATT, Clinical Assistant Professor of Obstetrics and Gynecology

RICHARD A. RUSKIN, Clinical Assistant Professor of Obstetrics and Gynecology

ROBERT I. SCHRIER, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

MARJORIE J. TOPKINS, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Obstetrics and Gynecology

Clinical Instructors:

Naef K. Basile
Charles H. Bippart
Perry S. Boynton, Jr.
Walter Freedman
John R. Langstadt

Cyril Marcus
Stewart Marcus
William D. McLarn
Robert N. Melnick
Myles C. Morrison, Jr.

Virginia K. Pierce
John T. Queenan
Jay B. Skelton
Virginia Werden
Robert E. Wieche

Instructors:

Frederick W. Martens

E. Thomas Steadman

Research Associates:

Hortense Gandy

Clayton Thomas

Assistants:

Daniel Adams
Jerome H. Brander
Edward O. Brown
D. Erskine Carmichael
Thomas C. Carrier

Robert Degnan
John Dwyer
Jane Enzmann
Robert Hardy
Richard Hnat

Masao Nakamoto
H. William O'Neil
H. Hudnall Ware
William Walden

The Lying-In Hospital, a division of the New York Hospital, provides 114 pavilion beds for teaching purposes in obstetrics and gynecology. In addition, the private service consists of a total of 85 beds. Students are given practical instruction in the out-patient department clinics of both obstetrics and gynecology and in the various special clinics designed for the more intensive study and care of patients with unusual problems. The students are provided every opportunity to benefit from the clinical work as carried on and demonstrated on the wards and in the operating and delivery rooms.

There are approximately 6000 adult admissions to the obstetrical service and 2500 to the gynecological service each year.

SECOND YEAR

ORIENTATION AND INTRODUCTION TO GYNECOLOGICAL EXAMINATION . . . During the last trimester of the second year, one two-hour session on orientation in the discipline and review of basic and pertinent clinical anatomy is given to the entire class. Subsequently, two one-hour sessions involving instruction in pelvic examination are given to groups of four students six days weekly, 4 hours. Professors Douglas, Given, Ball, Johnson, and staff.

A limited number of students will be accepted by individual arrangement for summer work on research problems.

THIRD YEAR

COURSE I. THE THEORY AND PRINCIPLES OF OBSTETRICS AND GYNECOLOGY . . . Lectures and demonstrations covering the anatomy and physiology of the female reproductive system; the physiology and pathology of

pregnancy, labor, and puerperium; and the etiology, pathology, and diagnosis of diseases of the pelvic structures.

The entire class meets for these sessions on Mondays and Saturdays 8:30 to 9:30 a.m. throughout the year. Professors Douglas, McLane, Kramer, Given, Johnson, Ball, Gause, and staff. Total hours, 66.

COURSE II. PRACTICAL INSTRUCTION . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays 9:30 a.m. to 11:30 a.m. Deals especially with physical diagnosis in both obstetrical and gynecological patients, and manikin exercises. Professors Dennen, Kramer, Hawks, Ruskin, Dillon, Bernard Nathanson, and staff.

COURSE III. SEMINAR . . . Given to one-sixth of the class for periods of one-half of a trimester ($5\frac{1}{2}$ weeks) on Tuesdays and Thursdays 11:30 a.m. to 12:30 p.m. Conducted on an informal basis; active student participation is encouraged. The subject matter pertains largely to obstetrical complications of pregnancy and labor. Professors Given, Johnson, and staff.

COURSE IV. NEOPLASTIC DISEASES . . . Instruction in and discussions of the problems of malignant neoplastic disease and its early recognition. The basic concepts of radiation therapy, with emphasis on the application to malignant disease in the female generative tract. Given to one-third of the class each trimester. Mondays 9:30 to 10:30 a.m. Professors Douglas, Burnett (Radiology), Dillon, Davis, and staff.

COURSE V. OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Laboratory instruction in obstetrical and gynecological pathology, both gross and microscopic. Given to one-third of the class each trimester. Mondays 10:30 a.m. to 12:30 p.m. Professors Kramer, Davis, Finn, Snyder, and staff. Total hours, 77 for Courses II, III, IV, and V.

FOURTH YEAR

MAJOR PRACTICAL OBSTETRICS AND GYNECOLOGY . . . Comprises practical work in obstetrics and gynecology and is the sequel to the theoretical instruction offered to the third year students. Each student will serve in the Lying-In Hospital for a period of $7\frac{1}{2}$ weeks, during which time he will act as a clinical assistant in the obstetrical and gynecological department; this includes activities in hospital wards, delivery and operating rooms, and clinics. Some students will be provided with sleeping accommodations. The student is expected to participate in all departmental teaching functions. Daily rounds are held on each floor to keep him informed on all activities in addition to those relating to his assigned patients.

The practical work includes the prenatal care of many patients, attending them in labor and delivery as well as following them throughout the course of the puerperium. Facilities are also provided for the student to examine gynecological patients and to observe these patients through diagnostic and therapeutic procedures.

A conference is conducted each morning, 8 to 9 a.m., for those students assigned to the delivery floor. Problems encountered during the previous day are discussed. Active student participation is encouraged. Professor Nathanson.

Because of the nature of the service, night and weekend work is required. Minimum hours allotted to the course, 285.

DEPARTMENTAL STAFF CONFERENCES AND ROUNDS . . . A weekly staff conference is held on Mondays from 2 to 4 p.m. and rounds on Fridays from 11 a.m. to 1 p.m. Symposia and instructive case reports are presented with student participation. Professor Douglas and staff.

OBSTETRICAL AND GYNECOLOGICAL PATHOLOGY . . . Current representative pathological material with a brief clinical history and microscopic projection will be presented each Wednesday from 5 to 6 p.m. Professor Kramer and staff.

SEMINARS . . . The four or five students assigned to gynecology meet each Wednesday and Thursday at 10 a.m. Professor Johnson.

ELECTIVE COURSES

PRACTICAL OBSTETRICS AND GYNECOLOGY . . . A limited number of students will be accepted to serve as assistants in different clinics.

Courses can be arranged in the chemical, bacteriological, and pathological laboratories for the study of specific research problems. The special clinics provide teaching facilities and opportunities for clinical investigation in neoplastic disease, endocrinology, heart disease, infertility, and other fields. The various rounds and staff conferences can be attended.

Encouragement is given for original work according to the departmental facilities and the student's capabilities and in general will be designed to meet the student's qualifications.

PATHOLOGY

JOHN G. KIDD, Professor of Pathology (*Chairman*)

ROBERT C. MELLORS, Professor of Pathology

AARON KELLNER, Associate Professor of Pathology

GEORGE E. MURPHY, Associate Professor of Pathology

GOETZ W. RICHTER, Associate Professor of Pathology

JEAN E. TODD, Clinical Associate Professor of Pathology

JOHN SEYBOLT, Assistant Professor of Pathology

RICHARD M. TORACK, Assistant Professor of Pathology

Instructors:

Peter M. Burkholder

Jack W. C. Hagstrom

Norman Lowe

Leslie H. Sobin

Research Associate:

Kenneth R. Woods

Research Fellow:

Karl Eurenus

Assistants:

Carl G. Becker

C. Richard Minick

Charlotte Street

Farro Raafat

Lecturers:

Arthur S. Carlson

Milton Helpern

Theodore Robertson

Visiting Fellow:

L. Whittington Gorham

GENERAL PATHOLOGY**FACILITIES**

The department of pathology occupies three floors of the central part of the College building, conveniently located above the library and in immediate contact with the Hospital, the autopsy room being in the connecting wing between College and Hospital. The teaching is largely concentrated on the third floor, where the autopsy room, demonstration room for pathological anatomy, anatomical museum, and classrooms are situated. The fourth and fifth floors are chiefly unit laboratories for staff members and graduate students and for technical preparation. In addition, animal quarters and facilities for experimental work are on the fifth, sixth, and seventh floors.

The museum contains a carefully selected collection of specimens, representing most of the common and many of the more unusual pathological lesions. It is especially rich in lesions of bones and in tumors. In addition to this mounted collection, there is available a very considerable amount of constantly changing gross material for student study.

The postmortem service of the New York Hospital affords abundant opportunity for study of pathological anatomy and its relation to clinical medicine. The systematic records of autopsies performed at the New York Hospital have been preserved since 1851, and in recent years protocols and microscopic slides have been carefully indexed and filed.

INSTRUCTION . . . Instruction is given in the first and second terms of the second year. Gross and histological lesions are studied, and their pathogenesis and correlation with disturbed function are considered. Lectures and classroom demonstrations are supplemented by studies at the autopsy table. The course begins with the degenerations, inflammation, and repair, and proceeds with the various specific infections and tumors. The latter part of the course is devoted to special systemic pathology including an introduction to neuropathology.

GENERAL AND SPECIAL PATHOLOGY . . . Required in the first and second terms of the second year.

Professor Kidd and staff. 264 hours.

NEUROPATHOLOGY . . . The pathology of the nervous system is studied, and altered structure and function are correlated.

Professor Torak. 33 hours.

CLINICAL PATHOLOGICAL CONFERENCES . . . These conferences are held in cooperation with the staffs of the clinical departments of the Hospital and Medical College each week throughout the year. Observations concerning the clinical course and diagnosis of diseases are correlated with changes found at autopsy.

ELECTIVE COURSES . . . A student may undertake the investigation of some problem in pathology or may pursue advanced courses in any of the several

fields to be determined by consultation with the heads of the departments. Research or elective courses will ordinarily require the entire time of the student for a period of one to three months and may be continued into the summer.

PEDIATRICS

WALLACE W. McCRORY, Professor of Pediatrics (*Chairman*)

HAROLD W. K. DARGEON, Clinical Professor of Pediatrics

HEINZ F. EICHENWALD, Professor of Pediatrics

CARL H. SMITH, Clinical Professor of Pediatrics

LEONA BAUMGARTNER, Clinical Associate Professor of Pediatrics

SAMUEL R. BERENBERG, Clinical Associate Professor of Pediatrics

MARGARET DANN, Associate Professor of Pediatrics

PAUL F. DE GARA, Clinical Associate Professor of Pediatrics (Allergy)

MARY ALLEN ENGLE, Associate Professor of Pediatrics

NATHAN EPSTEIN, Clinical Associate Professor of Pediatrics

MARION E. ERLANDSON, Associate Professor of Pediatrics

JOHN E. FRANKLIN, Clinical Associate Professor of Pediatrics

HENRY P. GOLDBERG, Clinical Associate Professor of Pediatrics

EDMUND N. JOYNER III, Clinical Associate Professor of Pediatrics

HEDWIG KOENIG, Clinical Associate Professor of Pediatrics

MILTON I. LEVINE, Clinical Associate Professor of Pediatrics

M. LOIS MURPHY, Associate Professor of Pediatrics

CHARLES H. O'REGAN, Clinical Associate Professor of Pediatrics

MAXWELL STILLERMAN, Clinical Associate Professor of Pediatrics

MARJORIE A. WHEATLEY, Clinical Associate Professor of Pediatrics

HOWARD G. WORTHEN, Associate Professor of Pediatrics

BARBARA S. ASHE, Assistant Professor of Pediatrics

PETER A. McF. AULD, Assistant Professor of Pediatrics

RICHARD R. BASS, Clinical Assistant Professor of Pediatrics

CHARLES H. BAUER, Clinical Assistant Professor of Pediatrics

OTTO E. BILLO, Clinical Assistant Professor of Pediatrics

SAMUEL W. DOOLEY, Assistant Professor of Pediatrics

MARVIN J. GERSH, Clinical Assistant Professor of Pediatrics

MARTIN J. GLYNN, Clinical Assistant Professor of Pediatrics

JAMES Q. HARALAMBIE, Clinical Assistant Professor of Pediatrics

GEORGE S. HARRIS, Jr., Clinical Assistant Professor of Pediatrics

FREDERICK C. HUNT, Clinical Assistant Professor of Pediatrics

MARGARET M. KUGLER, Clinical Assistant Professor of Pediatrics

WAN NGO LIM, Assistant Professor of Pediatrics

FLORENCE N. MARSHALL, Clinical Assistant Professor of Pediatrics

ARMOND V. MASCIA, Clinical Assistant Professor of Pediatrics

ROBERT G. McGOVERN, Clinical Assistant Professor of Pediatrics

MARION McILVEEN, Clinical Assistant Professor of Pediatrics

VIRGINIA C. MITTY, Clinical Assistant Professor of Pediatrics

JOAN E. MORGENTHAU, Clinical Assistant Professor of Pediatrics

MADOKA SHIBUYA, Clinical Assistant Professor of Pediatrics

HENRY R. SHINEFIELD, Assistant Professor of Pediatrics

MARTHA L. SMITH, Clinical Assistant Professor of Pediatrics

GERTRUDE S. STERN, Assistant Professor of Pediatrics

CHARLOTTE T. C. TAN, Assistant Professor of Pediatrics

LOUIS E. WEYMULLER, Clinical Assistant Professor of Pediatrics

STANLEY S. ZIPSER, Clinical Assistant Professor of Pediatrics

Instructors:

Martha Bazar

Margaret W. Hilgartner

Ronald H. Levine

Margaret S. Lyman

Maria I. New

Clinical Instructors:

Ann McA. Birch
 Mary C. Buchanan
 Walter T. Carpenter
 Leon I. Charash
 Ruth Cudmore
 Alan P. De Mayo

Joseph H. Di Leo
 Diane B. Gareen
 Margaret T. Grossi
 Tomiko Ito
 Carl P. Kremer, Jr.
 Rebecca F. Notterman

Virginia E. Pomeranz
 Beatrice S. Slater
 David I. Smith
 Peter S. Tolins
 Alvah M. Weiss

Research Associates:

Katharine Cobb
 Julius Golubow

Olga Kotsevalov
 Helen McNamara

Fellows:

Renee M. Brilliant
 Kathryn H. Ehlers
 Abby J. Greenberg

Lenore S. Levine
 Melville G. Magida
 James McKenna

Assistants:

Philip W. H. Eskes
 Leonard Glass
 George S. Goldstein
 Judith L. Jabloner
 Kurt Metzl

Karl Neumann
 James W. M. Owens
 Melvin S. Rosh
 John W. Schieffelin
 Howard Schreiber

Josef Soloway
 Frances F. Stuart
 Jerome M. Torsney
 Alvin S. Yusin

Research Assistant:

Elizabeth V. New

THIRD YEAR . . . A clinical lecture once a week throughout the entire school year presents the subjects of normal growth and development in infants and children and principles of nutrition with application to infant feeding, with patients illustrating the peculiarities of disease in early life. Students serve as clinical clerks in pediatrics for a period of five and one-half weeks on the pavilions of the New York Hospital. They are assigned new cases in rotation and gain experience in diagnosis and in the management of sick children requiring hospital residence. They are on duty in rotation at night and week ends. The work of the clinical clerkship includes attendance at cardiac clinics and at departmental conferences. Special rounds and seminars are arranged for the benefit of the clerks. Instruction in contagious disease is given at the New York Hospital. Total hours, 205.

FOURTH YEAR . . . The clinical lectures are continued through part of the fourth year and are closely integrated with the fourth year lectures in internal medicine. Many of the students' activities are a part of the Comprehensive Care and Teaching Program. Students are assigned to the outpatient department in the mornings, where they are given supervised responsibility for the management of ambulatory pediatric patients. They take histories, make physical examinations, and prescribe treatment. A daily therapeutic conference supplements the clinical work. A series of seminars is held under the supervision of senior staff members. Emphasis is placed on the psychological aspects of pediatrics and the measures which can be taken to promote proper growth and development. Both in the General Pediatric Clinics and the Well Baby Clinics students are given the opportunity for longitudinal follow-up of individual

patients so as to become familiar with normal growth and development of infants and children and the natural history of disease processes. Total hours, 86.

ELECTIVE COURSES

SECOND YEAR . . . Elective courses are offered to second year students in the third trimester. Part time or full time programs in the Division of Child Development, or participation in one of a number of research activities supervised by various members of the Pediatric Department can be arranged individually.

FOURTH YEAR . . . Elective courses are offered to fourth year students during the entire academic year. Full time or part time programs in the Division of Child Development, in the various Pediatric Clinics, or participation in a number of research activities under the supervision of members of the Pediatric Department can be arranged individually with interested students.

PHARMACOLOGY

WALTER F. RIKER, JR., Professor of Pharmacology (*Chairman*)

HARRY GOLD, Clinical Professor of Pharmacology

WALTER MODELL, Associate Professor of Pharmacology

JAY ROBERTS, Associate Professor of Pharmacology

JANET TRAVELL, Clinical Associate Professor of Pharmacology *

ALBERT S. KUPERMAN, Assistant Professor of Pharmacology

FRANK S. STANDAERT, Assistant Professor of Pharmacology

Instructor:

William T. Beaver

Research Fellows:

Amir Askari

Ryuta Ito

Allan Van Poznak

Lecturer:

Melvin S. Schwartz

SECOND YEAR . . . Laboratory work, demonstrations, seminars, and lectures are given during the first term of the second year and constitute the basic course in pharmacology. The purpose of these exercises is to teach the principles of pharmacology. Detailed consideration is given to the parameters of drug action so as to provide the student with the fundamental concepts essential for the evaluation of any drug. Consequently emphasis is placed on the scientific basis of pharmacology without particular reference to a systematic consideration of drugs or their applications. Rather, prototype substances serve to illustrate several mechanisms and parameters of drug action. 121 hours.

During the second trimester of the second year, the course in pharmacology is continued with two weekly lectures. In this phase of instruction systematic consideration is given to the pharmacologic properties of the more important drugs in current use. Therapeutic applications are not considered except where they uniquely illustrate pharmacologic characteristics. 22 hours.

* On leave of absence.

FOURTH YEAR . . . Weekly seminars are held by the Pharmacology Department during the course in Comprehensive Medicine. The aim of these seminars is to review the pharmacologic properties of selected drugs and from this to ascertain the utility and limitations of these drugs in given clinical situations. Topics for discussion are determined chiefly by student choice. 11 hours.

ELECTIVE COURSES

SECOND YEAR . . . An elective course is offered in the third trimester of the second year. In this, the student may have the opportunity either to ascertain the pharmacologic profile of newer drugs, through application of principles introduced in the basic course, or to clarify, through research, some particular aspect of drug action. Scheduled seminars serve as a means for presentation and critical discussion of studies in progress. These activities are supervised closely by staff members and oriented as a graduate course. Consequently, registration is limited. 220 hours.

BIOSTATISTICS SEMINAR . . . Sponsored jointly by the Departments of Pharmacology and Public Health.

Meets weekly throughout the academic year to consider statistical procedures and theory, much of which is especially relevant to quantitative pharmacology. The topics considered include least squares theory, hypotheses testing with the conventional "t" test and chi-square procedures, analysis of variance, and probit analysis.

PHYSIOLOGY AND BIOPHYSICS

ROBERT F. PITTS, Professor of Physiology

GERHARD H. GIEBISCH, Associate Professor of Physiology

ROGER L. GRIEF, Associate Professor of Physiology

D. ROBERT AXELROD, Clinical Assistant Professor of Physiology

COLIN FELL, Assistant Professor of Physiology

HAROLD G. HEMPLING, Assistant Professor of Physiology

RICHARD H. KESSLER, Clinical Assistant Professor of Physiology

SHERMAN KUPFER, Clinical Assistant Professor of Physiology

Instructor:

Erich E. Windhager *

Research Fellows:

Edward Alexander

Mamoru Fujimoto

Harry G. Preuss

Felice Aull

Gerhard Malnic

Stephen W. Weinstein

Sulamita Balagura

The instruction in physiology and biophysics is concentrated in the second and third terms of the first year. Prerequisites include a basic knowledge of chemistry and physics and at least some knowledge of anatomy, neuroanatomy, and biochemistry. The second term is devoted to lectures and conferences and the third term to laboratory, lectures, and conferences.

The instruction in physiology and biophysics is directed toward an under-

* On leave of absence.

standing of the principles involved in the functioning of the human body and of the means by which the functions of the various organ systems are integrated. Lectures are supplemented by references to current literature. The department is fortunate in having housed on the fourth floor of its building the Graham Lusk Library of Physiology, a gift to the department from its late Professor Graham Lusk. This includes bound volumes of complete sets of the important physiological and biochemical literature, monographs, handbooks, and textbooks, and is being supplemented by some of the current journals and monographs. In addition to the College library, the facilities of this library are at the disposal of the students of medicine.

The laboratory work includes a number of human experiments, emphasizes mammalian physiology, and is directed toward quantitative determinations. The laboratory experiments are chosen to illustrate fundamental principles in the respective fields of physiology and are correlated with lectures by means of conferences. The demonstrations include instruction in specialized techniques, experimental preparations, and presentation of clinical cases. These are facilitated by the participation and cooperation of staff members of various departments in the Medical College and the New York Hospital.

SECOND TERM . . . Lectures and conferences on bioelectric phenomena, nerve, muscle, special senses, blood, circulation, respiration, and gastrointestinal function. 44 hours.

THIRD TERM . . . Laboratory work on all phases of physiology and biophysics including applications of radioisotopic methods to the study of body function. Conferences are largely devoted to a consideration of laboratory results and to the presentation of patients who exhibit functional disturbances. Lectures on metabolism, central nervous system, endocrinology, body fluids, and kidney. Laboratory exercises two full days per week. 187 hours.

A course in radiobiology is sponsored by the Department of Physiology, but presented in cooperation with the Departments of Radiology, Pathology, Microbiology, Biochemistry, and Medicine. The course includes discussions of the nature of ionizing radiation, the effects of ionizing radiation at molecular and cellular levels, radiopathology, the genetic effects of radiation, radiation protection, and the use of radioisotopes in medical research. 11 hours of lecture.

ELECTIVE COURSES . . . A seminar course in Topics in Biophysics and one in Fluid and Electrolyte Balance are offered to selected students during their second year elective time. An opportunity is offered to not more than five students during their second year elective period to participate as laboratory instructors in physiology. Research work for medical students during second and fourth year elective periods and for members of any class during summer vacation periods will be arranged on consultation with members of the department.

COURSES OPEN TO SPECIAL STUDENTS

1. *PHYSIOLOGY*. Fee, \$100 for each term.

2. *PHYSIOLOGICAL RESEARCH*. Subject to special arrangement with head of the department.

PSYCHIATRY

WILLIAM T. LHAMON, Professor of Psychiatry (*Chairman*)

FRANCIS J. HAMILTON, Clinical Professor of Psychiatry

ALEXANDER H. LEIGHTON, Professor of Psychiatry (Social Psychiatry)

JAMES H. WALL, Clinical Professor of Psychiatry

ERIC T. CARLSON, Clinical Associate Professor of Psychiatry

FREDERIC F. FLACH, Clinical Associate Professor of Psychiatry

LAWRENCE E. HINKLE, JR., Clinical Associate Professor of Medicine in Psychiatry

RICHARD N. KOHL, Associate Professor of Psychiatry

DOROTHEA C. LEIGHTON, Clinical Associate Professor of Psychiatry (Social Psychiatry)

LEON L. RACKOW, Clinical Associate Professor of Psychiatry

LIVINGSTON WELCH, Clinical Associate Professor of Psychology in Psychiatry

HELEN E. DANIELS, Clinical Assistant Professor of Psychiatry

ALAN W. FRASER, Clinical Assistant Professor of Psychiatry

CHARLES C. HUGHES, Assistant Professor of Anthropology in Psychiatry (Social Psychiatry)

SEYMOUR G. KLEBANOFF, Clinical Assistant Professor of Psychology in Psychiatry

CHARLES A. KNEHR, Clinical Assistant Professor of Psychology in Psychiatry

THOMAS S. LANGNER, Assistant Professor of Sociology in Psychiatry (Social Psychiatry)

ALFRED B. LEWIS, JR., Assistant Professor of Psychiatry

JAMES F. MASTERSON, JR., Clinical Assistant Professor of Psychiatry

CURTIS T. PROUT, Clinical Assistant Professor of Psychiatry

FRED V. ROCKWELL, Clinical Assistant Professor of Psychiatry

ALBERT C. SHERWIN, Clinical Assistant Professor of Psychiatry

PETER E. STOKES, Clinical Assistant Professor of Medicine in Psychiatry

JOSEPH D. SULLIVAN, Clinical Assistant Professor of Psychiatry

WILLIAM H. WAINWRIGHT, Assistant Professor of Psychiatry

NATHANIEL WARNER, Clinical Assistant Professor of Psychiatry

Instructors:

Edward Y. Liang

Robert S. McCully

Clinical Instructors:

Edward T. Adelson

Arthur A. Anderson, Jr.

Stuart Ashman

Ralph D. Baker

James E. Baxter

A. Louise Brush

Charles I. Celian

Remo R. Cerulli

Howard N. Cooper

Eleanor Crissey

Lois B. de Alvarado

Thomas L. Doyle, Jr.

Samuel V. Dunkell

G. Renee Ferguson

Gerard Fountain

John A. Frank

Stephen Goodyear

Lawrence J. Hatterer

Philip S. Herbert, Jr.

Peter T. Janulis

Francis D. Kane

Marilyn G. Karmason

M. Dorothea Kerr

Allison B. Landolt

Rene C. Mastrovito

Lillian E. McGowan

John F. McGrath

William K. McKnight

Alan A. McLean

Wayne A. Myers

Maurice Pachter

Martha K. Reese

Marjorie Rittwagen

Philip S. Robbins

George Samios

Shirley Schaffer

Marie-Louise Schoelly

Anne M. Shuttleworth

Herbert E. Spohn

Leonard R. Straub

Kenneth F. Tucker

Morton L. Wadsworth

Henriette L. Wayne

Louis Weinstein

Peter G. Wilson

Research Associates:

Roderick A. Armstrong

Albert N. Browne-Mayers

John S. Harding

Jane M. Hughes

Stanley T. Michael

Assistants:

A. Anthony Arce
 Harvey H. Barten
 Marvin B. Blitz
 Robert S. Carson
 John H. Chilman
 Robert M. Duguay
 Theodore H. Finkle

Myron L. Glucksman
 Murray I. Kofkin
 David C. Morley
 Jacques M. Quen
 Edwin R. Ranzenhofer
 Anna M. Remler
 Marilyn R. Scheuing

James H. Spencer
 Michael S. Stockheim
 Richard T. Suchinsky
 Neil Taylor
 Sylvia G. Traube
 Harry G. Wallenstein
 Alden E. Whitney

Research Assistants:

Alice L. Longaker

David B. Macklin

The department of psychiatry offers instruction during each of the four years. The understanding of development of the normal personality forms a necessary basis for future clinical training. A course in psychopathology in the second year orients the student in personality disorders and in the methods of their examination and study. In the third year, this preliminary training is utilized in the study of patients at the Payne Whitney Psychiatric Clinic and on the pavilions of the New York Hospital. In the psychiatric outpatient department, during the fourth year, the student participates in the study and treatment of the diverse problems presenting themselves in general psychiatric practice. The importance of personality problems in general medicine is taught in the pavilions of the New York Hospital, in the Comprehensive Care and Teaching Program, and in the outpatient service of the Payne Whitney Psychiatric Clinic. Clinics are planned to unify these many activities and to offer in addition a broad understanding of treatment and investigation.

FIRST YEAR: PERSONALITY DEVELOPMENT . . . Acquaints the student with the development and methods of study of the normal personality. Lectures and seminars are utilized in presenting a dynamic orientation to the formation of personality from infancy through senescence. The significance of interpersonal relations is stressed, with particular emphasis on the patient-physician relationship. Psychological, physiological, and sociological factors are considered. Total hours, 33.

SECOND YEAR: PSYCHOPATHOLOGY AND METHODS OF EXAMINATION . . . The outstanding psychopathological phenomena are demonstrated and their psychodynamics studied by the students on patients in the outpatient department of the Payne Whitney Psychiatric Clinic. Offers practical experience in interviewing history taking and in the methods of psychiatric examination. Total hours, 33.

THIRD YEAR: CLINICAL PSYCHIATRY . . . Intended to clarify the descriptive and dynamic aspects of the major types of psychiatric disorders in such a way that the student will be able to formulate goals and method of treatment in all patients. The program includes lectures, seminars, and case discussions. Students examine and follow in-patients at the Payne Whitney Psychiatric Clinic; in addition, patients from the general hospital are reviewed. Total hours, 33.

FOURTH YEAR: CLINICAL PSYCHIATRY . . . In the outpatient department of the Payne Whitney Psychiatric Clinic, the student carries out the treatment of individual patients. Offers an opportunity to learn psychotherapy under close

supervision and to understand the role of psychiatric social service and of psychological studies in the adjustment of these patients. Clinics with case presentation, with emphasis on psychiatric treatment and review of literature, are given on Wednesday from 2 to 3 o'clock. Total hours, 99.

ELECTIVE WORK . . . Opportunities for elective work are provided in the in- and outpatient departments, on the metabolic unit, in the laboratories of the Payne Whitney Psychiatric Clinic, and in the department of social psychiatry, with emphasis on community psychiatry and epidemiology of mental illness; and at the Westchester Division of the New York Hospital, White Plains, N.Y.

PUBLIC HEALTH

WALSH McDERMOTT, Livingston Farrand Professor of Public Health (*Chairman*)
LEONA BAUMGARTNER, Clinical Professor of Public Health
JOHN R. HELLER, Clinical Professor of Public Health
WILLIAM T. INGRAM, Visiting Professor of Engineering in Public Health
EDWIN D. KILBOURNE, Professor of Public Health

SAMUEL R. BERENBERG, Clinical Assistant Professor of Public Health
BEATRICE B. BERLE, Clinical Assistant Professor of Public Health
AARON D. CHAVES, Clinical Assistant Professor of Public Health
FLOYD M. FELDMANN, Assistant Professor of Public Health
AUGUST H. GROESCHEL, Assistant Professor of Public Health
RENE JAHIEL, Assistant Professor of Public Health
B. H. KEAN, Assistant Professor of Parasitology in Public Health
ANN P. KENT, Clinical Assistant Professor of Public Health
JAMES R. MCCARROLL, Assistant Professor of Public Health
ROBERT M. McCUNE, Assistant Professor of Public Health
PHILIP OLLSTEIN, Clinical Assistant Professor of Public Health
MELVIN S. SCHWARTZ, Assistant Professor of Biometrics in Public Health

Instructors:

Clifford R. Barnett
Mathilde Krim

Jerome L. Schulman

Clinical Instructors:

Eric J. Cassell
Margaret Dressler
James H. Ewing

Gladys L. Hobby
Donald W. Hoskins
William Loery

Richard S. Usen

Research Fellow:

K. Marilyn Smart

The teaching aim of the department of public health is to assist the student to recognize the relationship between his expanding capital of medical knowledge and theory, and the medical problems of the time. Of necessity, this involves the consideration of certain questions in terms more general than those pertaining to an individual patient, but the medical problems of certain patients may also be profitably considered in relation to the times in which they live.

The courses start at the beginning of the second year and are continued throughout the third and fourth years.

SECOND YEAR: PARASITOLOGY . . . The first course is in diseases caused by the larger parasites which are particularly prevalent in so-called economically underdeveloped areas.

Given by Dr. B. H. Kean and his associates during the second trimester of the school year. Dr. Kean is Consultant in Tropical Diseases to the New York Hospital and has had extensive field experience in the tropics. The important larger parasites of man are considered: the mode of transmission of each parasite is studied, as well as the life cycle and intermediate hosts. Particular emphasis is placed on the clinical aspects of the various diseases that may be produced by the parasites. Prevention and control of human parasitic diseases are given proper consideration, and the therapy of these conditions is discussed. Actual cases of parasitic diseases are used to illustrate the laboratory exercises and the lectures.

Each Thursday afternoon during the second trimester of the second year, a lecture or demonstration is presented from 2 to 3 p.m., and the laboratory exercises are then carried on from 3 to 5 p.m. Total hours, 33.

SECOND YEAR: EPIDEMIOLOGY . . . During the second trimester of the year an introduction to epidemiology is given under the direction of Dr. James McCarroll. Emphasis is placed on patterns of disease occurrence and spread in the population and consideration of the intimate relationship between the nature of a community and its disease problems. Some of the teaching in biometrics is also given in this course, which is held each Monday afternoon from 2 to 3 p.m., and four Saturday mornings from 9 to 12 throughout the second trimester. Total hours, 23.

THIRD YEAR . . . The course in the third year is divided into two parts: (A) morning lectures; and (B) field trips followed by seminars.

The morning lectures are held every Friday throughout the year. Both the seminars and the lectures are devoted to consideration of general questions of a clear medical import which may be expected to represent major problems to the student's future patients and to himself. Except for the morning lectures, the teaching is all conducted with groups of 7 to 14 students. Total seminars and section work, 36 hours; total morning clinics, 33 hours.

FOURTH YEAR . . . The teaching program in the fourth year is centered in the Comprehensive Care and Teaching Program in the Medical Clinic. One of the full-time members of the department is a regular member of the teaching staff of the CCTP program and serves to coordinate the teaching activities of the other departmental members in the program. In addition, a series of 5 seminars are held during each one half year. Total hours, 14.

ELECTIVE COURSES

EPIDEMIOLOGY AND INFECTIOUS DISEASES . . . Experimental work and problems related to virology, immunology, and chronic bacterial infection may be undertaken when feasible in the Division of Virus Research or other laboratories of the department of public health. In addition, problems in biometrics or epidemiology of infectious and noninfectious diseases may be undertaken. Studies involving library scholarship may be pursued in any of the foregoing categories under guidance of faculty members of the department.

MEDICAL PARASITOLOGY . . . Intended to supplement and extend the required work in this field. Diagnosis, life histories of parasites and their vectors, and control measures are considered with special reference to tropical medicine.

RADIOLOGY

JOHN A. EVANS, Professor of Radiology (Chairman)

JAMES J. NICKSON, Professor of Radiology

ROBERT S. SHERMAN, Clinical Professor of Radiology

HAROLD L. TEMPLE, Clinical Professor of Radiology

DAVID V. BECKER, Associate Professor of Radiology

HARRY W. BURNETT, Associate Professor of Radiology

GUIDO CURRARINO, Associate Professor of Radiology

ULRICH K. HENSCKE, Clinical Associate Professor of Radiology

RALPH F. PHILLIPS, Clinical Associate Professor of Radiology

ISRAEL STEINBERG, Clinical Associate Professor of Radiology

THANE ASCH, Assistant Professor of Radiology

EUGENE BRONSTEIN, Clinical Assistant Professor of Radiology

FLORENCE CHIEN HWA-CHU, Clinical Assistant Professor of Radiology

KUO YORK CHYNN, Assistant Professor of Radiology

F. MITCHELL CUMMINS, Clinical Assistant Professor of Radiology

ELIZABETH FOCHT, Assistant Professor of Radiology (Physics)

ROBERT H. FREIBERGER, Clinical Assistant Professor of Radiology

EUGENE FURTH, Assistant Professor of Radiology

MORDECAI HALPERN, Assistant Professor of Radiology

GEORGE JASPIN, Clinical Assistant Professor of Radiology

MARVIN LORING, Assistant Professor of Radiology

ZUHEIR MUJAHED, Assistant Professor of Radiology

NATHAN POKER, Assistant Professor of Radiology

SAMUEL SEAL, Clinical Assistant Professor of Radiology

HENRY M. SELBY, Clinical Assistant Professor of Radiology

PETER M. TILLOTSON, Assistant Professor of Radiology

STEPHEN WHITE, Clinical Assistant Professor of Radiology

Instructors:

Nathan Geffen

Paul J. Killoran

Clinical Instructors:

Arnold Bajek

Arnold Berrett

Rubem Pochaczewsky

Alan Clark Scheer

Ruth E. Snyder

Frederick Winsberg

Assistants:

Anthony Calabrese

Milton Raben

Harry Stein

Donald Tobias

Robin C. Watson

The teaching of radiology is conducted by didactic lectures, by section work with smaller groups in connection with clinical clerkships, and by presentation of the X-ray aspects of various cases at the regular conferences of the clinical departments. Moreover, elective courses given in the fourth year play an important part in supplementing these methods. A large film and lantern slide museum of cases carefully selected for their teaching value has been prepared. This is constantly added to from the abundant material passing through the department. Three floors of the L Building are assigned to X-ray work. In addition, equipment for special examinations is located in the Woman's Clinic, urology, psychiatry, and elsewhere in the Medical College and Hospital.

During the first year, in collaboration with the department of anatomy, anatomical structures are visualized by radiographic and roentgenoscopic methods.

The didactic work consists of a series of eleven lectures to the entire second year class. These include the fundamental principles of radiation physics, X-ray diagnosis, and X-ray and radium therapy, with the aim of making the student aware at this stage of the various uses of X-rays. The indications and limitations are stressed.

Section work is conducted in the third year, while the students are serving as clinical clerks. The departments of medicine, pediatrics, and surgery assign each group receiving instruction from them to the department of radiology for regularly scheduled informal sessions. Specifically related X-ray material is presented and correlated with the clinical and laboratory findings. These sessions total approximately thirty hours.

Twenty lectures on roentgen diagnosis and radiation therapy are given to the fourth year class.

ELECTIVES: FOURTH YEAR

(1) *X-RAY CLINICAL CLERKSHIP* . . . A limited number of students are accepted to observe, and assist where possible, in the routine activities of the department. The routine includes film interpretations, fluoroscopy, therapeutic irradiation, and attendance at radiology conferences. Two conferences are held daily (L-611) at which time the more interesting diagnostic and therapeutic problems are discussed. One conference is held from 11 a.m. to 12 m. The second session, from 1 to 2 p.m., is limited to a review of the current examinations of the gastrointestinal tract.

(2) *TECHNIQUE OF FLUOROSCOPY* . . . Two hours. Limited to six students. Arrangements to be made through the department head.

(3) *GASTROINTESTINAL FLUOROSCOPY AND FILM INTERPRETATION* . . . One month. Limited to six students at any one time.

SURGERY

FRANK GLENN, Lewis Atterbury Stimson Professor of Surgery (*Chairman*)

JOSEPH F. ARTUSIO, Jr., Professor of Anesthesiology in Surgery

HERBERT CONWAY, Clinical Professor of Surgery (Plastic Surgery)

CRASTON W. HOLMAN, Clinical Professor of Surgery

VICTOR F. MARSHALL, Clinical Professor of Surgery (Urology)

JOHN M. McLEAN, Clinical Professor of Surgery (Ophthalmology)

JAMES A. MOORE, Clinical Professor of Surgery (Otolaryngology)

S. W. MOORE, Clinical Professor of Surgery

BRONSON S. RAY, Clinical Professor of Surgery (Neurosurgery)

LEE R. STRAUB, Clinical Professor of Surgery (Orthopedics)

T. CAMPBELL THOMPSON, Clinical Professor of Surgery (Orthopedics)

PRESTON A. WADE, Clinical Professor of Surgery

WILLIAM A. BARNES, Clinical Associate Professor of Surgery

JOHN M. BEAL, Clinical Associate Professor of Surgery

CHARLES L. BURSTEIN, Clinical Associate Professor of Anesthesiology in Surgery (Orthopedics)

EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery

JOHN R. COBB, Clinical Associate Professor of Surgery (Orthopedics)

WILLIAM COOPER, Clinical Associate Professor of Surgery (Orthopedics)

WILLIAM A. COOPER, Clinical Associate Professor of Surgery

NELSON W. CORNELL, Clinical Associate Professor of Surgery

PETER DINEEN, Clinical Associate Professor of Surgery

JOHN W. DRAPER, Clinical Associate Professor of Surgery (Urology)
 HOWARD S. DUNBAR, Clinical Associate Professor of Surgery (Neurosurgery)
 EDWARD A. DUNLAP, Clinical Associate Professor of Surgery (Ophthalmology)
 JOHN H. ECKEL, Clinical Associate Professor of Surgery
 GEORGE F. EGAN, Clinical Associate Professor of Surgery (Dentistry)
 GEORGE R. HOLSWADE, Clinical Associate Professor of Surgery
 LEONHARD KORNGOLD, Associate Professor of Microbiology in Surgery (Orthopedics)
 ERNEST W. LAMPE, Clinical Associate Professor of Surgery
 FREDERICK L. LIEBOLT, Clinical Associate Professor of Surgery (Orthopedics)
 BENJAMIN E. MARBURY, Clinical Associate Professor of Anesthesiology in Surgery
 FRANK J. MCGOWAN, Clinical Associate Professor of Surgery
 WILLIAM F. NICKEL, JR., Clinical Associate Professor of Surgery
 HERBERT PARSONS, Clinical Associate Professor of Surgery (Neurosurgery)
 ROBERT L. PATTERSON, Clinical Associate Professor of Surgery (Orthopedics)
 PETER-CYRUS RIZZO, Clinical Associate Professor of Surgery (Orthopedics)
 GEORGE E. WANTZ, Clinical Associate Professor of Surgery
 JOHN P. WEST, Clinical Associate Professor of Surgery
 WILLET F. WHITMORE, JR., Clinical Associate Professor of Surgery (Urology)
 PHILIP D. WILSON, JR., Clinical Associate Professor of Surgery (Orthopedics)

IRVING BARAS, Clinical Assistant Professor of Surgery (Ophthalmology)
 STANLEY J. BEHRMAN, Clinical Assistant Professor of Surgery (Dentistry)
 ANNE BELCHER, Clinical Assistant Professor of Surgery (Otolaryngology)
 FRANCIS A. BENEVENTI, Clinical Assistant Professor of Surgery (Urology)
 PAUL W. BRAUNSTEIN, Clinical Assistant Professor of Surgery
 FELIX BRONNER, Assistant Professor of Biochemistry in Surgery (Orthopedics)
 ROLLA D. CAMPBELL, JR., Clinical Assistant Professor of Surgery (Orthopedics)
 GEORGE N. CORNELL, Clinical Assistant Professor of Surgery
 J. EDWIN DREW, Clinical Assistant Professor of Surgery (Urology)
 HOLLON W. FARR, Clinical Assistant Professor of Surgery
 GEORGE A. FIEDLER, Clinical Assistant Professor of Surgery (Urology)
 MILES A. GALIN, Clinical Assistant Professor of Surgery (Ophthalmology)
 HAROLD GENVERT, Clinical Assistant Professor of Surgery
 HELENA GILDER, Assistant Professor of Surgery (Biochemistry)
 EDWARD I. GOLDSMITH, Clinical Assistant Professor of Surgery
 DAN M. GORDON, Clinical Assistant Professor of Surgery (Ophthalmology)
 ALEXANDER HERSH, Clinical Assistant Professor of Surgery (Orthopedics)
 JAMES M. HOLMAN, Clinical Assistant Professor of Surgery (Otolaryngology)
 GUSTAVUS A. HUMPHREYS, Clinical Assistant Professor of Surgery (Urology)
 D. REES JENSEN, Clinical Assistant Professor of Surgery
 VANSEL S. JOHNSON, Clinical Assistant Professor of Surgery
 RICHARD C. KARL, Clinical Assistant Professor of Surgery
 JOSEPH T. KAUER, Clinical Assistant Professor of Surgery
 EDWARD B. C. KEEFER, Clinical Assistant Professor of Surgery
 HARVEY A. LINCOFF, Clinical Assistant Professor of Surgery (Ophthalmology)
 BERNARD MAISEL, Clinical Assistant Professor of Surgery
 HENRY MANNIX, JR., Clinical Assistant Professor of Surgery
 VICTOR MAYER, Clinical Assistant Professor of Surgery (Orthopedics)
 JOHN H. MCGOVERN, Clinical Assistant Professor of Surgery (Urology)
 FREDERICK C. McLELLAN, Clinical Assistant Professor of Surgery (Urology)
 LAURENCE MISCALL, Clinical Assistant Professor of Surgery
 GEORGE C. MUELLER, Clinical Assistant Professor of Surgery (Otolaryngology)
 JAMES A. NICHOLAS, Clinical Assistant Professor of Surgery (Orthopedics)
 S. FRANK REDO, Clinical Assistant Professor of Surgery
 ERIC C. RICHARDSON, Clinical Assistant Professor of Surgery (Ophthalmology)
 JOHN G. SCHMIDT, Clinical Assistant Professor of Surgery
 ROBERT I. SCHRIER, Clinical Assistant Professor of Anesthesiology in Surgery
 DONALD M. SHAFER, Clinical Assistant Professor of Surgery (Ophthalmology)
 PAUL A. SKUDDER, Clinical Assistant Professor of Surgery
 STUART S. SNYDER, Clinical Assistant Professor of Surgery (Ophthalmology)
 BJORN THORBJARNARSON, Clinical Assistant Professor of Surgery
 MARJORIE J. TOPKINS, Clinical Assistant Professor of Anesthesiology in Surgery
 ALAN VAN POZNAK, Clinical Assistant Professor of Anesthesiology in Surgery

Instructors:

John C. Alden
Joseph P. Dineen
Charles B. Dunaif
William R. Grafe
Anthony G. Cristina
Raymond-Marie Guay

Maury L. Hanson
William F. Kearney, Jr.
Raynald Lavoie
Ronald M. Match
Frank G. Moody
Manuel M. Morillo

Donald E. Pizar
Richard M. Stark
William J. Storz
John R. Woodard

Clinical Instructors:

Jacob Applebaum
William D. Arnold
Samuel Avnet
Howard D. Balensweig
Leonard Biel, Jr.
Mitchell Brice II
Michael Browne
Anthony Camarda
Thomas I. Carey
Robert L. Clarke
Edward C. Coats
Elizabeth F. Constantine
Rudolph C. Dangelmajer
Robert D. Deans
John H. Doherty
Wade Duley
Charles R. Dunbar
Sidney Eichenholtz
Herbert L. Erlanger
Francis J. Fadden
Edgar P. Fleischmann
William C. Frederick

Milton Gabel
Russell O. Gee
J. Theodore Geiger
Dicran Goulian, Jr.
William D. Graham
Charles K. Hamilton
Bruce R. Heinzen
I. David Horwich
Suzanne A. L. Howe
Bernard Jacobs
John G. Keuhnelian
Russell W. Lavengood, Jr.
Jerome Lawrence
Alfred E. Mamelok
Peter J. Marchisello
Mary H. Markham
Joseph B. Mason
Gerald J. Millstein
George R. Monahan
Juan Negrin
William J. Nelson
John B. Ogilvie

Arthur J. Okinaka
Earl A. O'Neill
Russel H. Patterson, Jr.
Walter L. Peretz
Charles W. Quimby, Jr.
Leslie E. Rudolf
Robert W. Schick
Jerold Schwartz
Alfred Scimeca
Michael Sierp
James W. Smith
Martin Spatz
David S. Speer
John F. Struve
Irvin S. Taylor
Francis M. Tiers
Philip H. Voorhees
Jerome R. Weinroth
Roy C. Wiggins
Robert B. Zufall

Research Associates:

Ronald W. Gillette
Peter M. Guida

J. Paul Harvey
Allan E. Inglis

Research Fellow:

Ahkad Akbari

Assistants:

Joel B. Adler
Charles Akselrad
Arthur M. Auerbach
Phyllis A. Bagdi
Richard A. Baragry
Raymond G. Barile
Arthur R. Beil, Jr.
Carl M. Beiles
Richard M. Bergland
Leon I. Block
Arthur L. Boland, Jr.
George V. Burkholder
C. Elton Cahow, Jr.
Stanley M. K. Chung
Joel A. Clark, Jr.
Julius Conn, Jr.
Gerald T. Cook
Armand F. Cortese
Arnold G. Diethelm
John P. Donohue
Roger R. Ecker
John T. Fisher
John T. Flynn

Philip D. Freedman
Charles F. Frey
Thomas M. Fulcher
Dudley M. Golkin
Alexander W. Gotta
Randolph H. Guthrie, Jr.
Kamal T. Hemady
Raymond G. Hicks
Vincent M. Hogan, Jr.
Robert H. Horne
Ann Huston
O. Adrian Johnson
Donaldson W. Kingsley, Jr.
Luke M. Kitahata
Warren W. Koontz, Jr.
David B. Levine
Ralph J. Lewis
Melvin G. Lund
J. Ralph Macfarlane
Louis J. Maggio
Spiro N. Mason
J. Bruce McGovern
Charles K. McSherry

Thomas H. Milhorat
Patricia M. O'Neil
Ahmad Orandi
Hugh P. O'Shaughnessy
Benjamin S. Park, Jr.
Alan Pavel
John M. Pitman, Jr.
Walter F. Pizzi
James W. Preuss
George P. Santos
Real Sasseville
John C. Schiebler
John H. Seward
Henry H. Sprague
John M. Stein
Kenneth G. Swan
Robert E. Sweat, Jr.
Dean H. Weaver
William A. White
Philip A. Zetterstrand
Eric K. Zitzmann

Research Assistant:

Edward C. Muecke

MEMORIAL HOSPITAL

HENRY T. RANDALL, Professor of Surgery

ALEXANDER BRUNSCHWIG, Clinical Professor of Surgery

EUGENE E. CLIFFTON, Clinical Associate Professor of Surgery

MICHAEL R. DEDDISH, Clinical Associate Professor of Surgery

JOSEPH H. FARROW, Clinical Associate Professor of Surgery

EDGAR L. FRAZELL, Clinical Associate Professor of Surgery

WILLIAM S. HOWLAND, Associate Professor of Anesthesiology in Surgery

GORDON McNEER, Clinical Associate Professor of Surgery

GEORGE T. PACK, Clinical Associate Professor of Surgery

WILLIAM L. WATSON, Clinical Associate Professor of Surgery

WILLET F. WHITMORE, Jr., Clinical Associate Professor of Surgery

ROBERT J. BOOHER, Clinical Assistant Professor of Surgery

C. PAUL BOYAN, Assistant Professor of Anesthesiology in Surgery

WILLIAM G. CAHAN, Clinical Assistant Professor of Surgery

WILLIAM W. DANIEL, Clinical Assistant Professor of Surgery

HOLLON W. FARR, Clinical Assistant Professor of Surgery

JOSEPH G. FORTNER, Clinical Assistant Professor of Surgery

NORMAN L. HIGINBOTHAM, Clinical Assistant Professor of Surgery

ARTHUR I. HOLLEB, Clinical Assistant Professor of Surgery

WALTER LAWRENCE, Jr., Clinical Assistant Professor of Surgery

LUCILE LOSEKE, Clinical Assistant Professor of Surgery

THEODORE R. MILLER, Clinical Assistant Professor of Surgery

JOHN L. POOL, Clinical Assistant Professor of Surgery

GUY F. ROBBINS, Clinical Assistant Professor of Surgery

OLGA SCHWEIZER, Assistant Professor of Anesthesiology in Surgery

REUVEN K. SNYDERMAN, Clinical Assistant Professor of Surgery

MAUS W. STEARNS, Jr., Clinical Assistant Professor of Surgery

JEROME A. URBAN, Clinical Assistant Professor of Surgery

Instructors:

Rita G. Jacobs

Ann H. Miller

Terence W. Murphy

Beatrice Selvin

Joanne R. Smith

Kuo Cheng Wang

Clinical Instructors:

Lemuel Bowden

Richard D. Brasfield

Daniel Catlin

Paul Clapp

Donald C. G. Clark

James C. DiLorenzo

Alfred A. Fracchia

Kenneth C. Francis

Frank P. Gerold

John T. Goodner

Harry Grabstald

Charles C. Harrold, Jr.

Ralph E. L. Hertz

Suzanne A. L. Howe

John S. Lewis

John C. Lucas, Jr.

A. Ranald Mackenzie

Charles J. McPeak

Oliver S. Moore

Elisabeth P. Pickett

Stuart Quan

H. Randall Tollefsen

Horace W. Whiteley, Jr.

Assistants:

Edward W. Browne, Jr.

Jerome J. DeCosse

Walter R. Lofmark

Michael A. Paglia

Elliot W. Strong

Merrill L. Wilson

GENERAL SURGERY

SECOND YEAR . . . Instruction begins in the third trimester of the second year. Two sessions of two hours each are provided in general surgical problems as part of the course in physical diagnosis. Instruction is provided, also, in ophthalmologic, orthopedic and urologic examination. Tutors are assigned to

groups of four students for supervision of history taking and physical examination.

Elective courses are provided in surgery for second year students in the third trimester. Opportunities to participate in experimental procedures in the laboratories for surgical research are available and are supervised by members of the teaching staff.

THIRD YEAR . . . In the third year the entire class attends a clinic, conducted by the head of the department or his immediate associates, at 8:30 every Wednesday morning. Usually two patients are shown as examples of one clinical entity. Three students are selected at the beginning of the hour to participate in the discussion as it is directed by the instructor. During the school year a total of thirty-three of these clinics is held. Those subjects are presented that lend themselves to enunciating general problems and principles of surgical therapy.

The third year class is divided into three sections. One section is assigned each term to surgery. In this period of twelve weeks the students are assigned to the clinics in the out-patient department of general surgery and the surgical specialties. Here they gain a broad experience with patients who are considered for surgical therapy. In general surgery they work in the diagnostic clinic, where they are assigned new patients, taking a full history and doing a complete physical examination. Each case is presented to an attending surgical instructor; the differential diagnosis, diagnostic procedures, and therapy are discussed. These patients are seen on return visits by the same student in order that the results of diagnostic procedures and clinical course may be determined first-hand and definitive therapy decided upon in consultation with a staff member.

In the minor surgical clinic of General Surgery, as much responsibility as possible is given to the student in the treatment of infections, management and dressing of wounds, and the examination of patients who have had major surgical procedures in the hospital. During the term the students are assigned in rotation to the specialty clinics of orthopedics, urology, otolaryngology, ophthalmology, and fractures, where they receive instruction in special methods of diagnosis and have opportunity to observe therapy among the ambulatory patients.

A course in operative surgery on animals occupies one morning each week. The section is divided into operating teams of four: a surgeon, an anesthetist, a first assistant, and a scrub nurse. The students rotate positions for the performance of twelve selected surgical procedures. The animals (dogs) are the patients and are accorded pre- and postoperative care by the students simulating that of patients in the hospital. The course is designed to acquaint the students with what surgical operations entail and to emphasize the fundamental principles of anesthesia, asepsis, hemostasis, and wound healing.

Four times weekly, lectures and demonstrations are presented to the group, dealing with clinical problems encountered in the activities of the out-patient department.

The program of the third year is based upon the concept that general surgery, in contradistinction to general medicine, is in a sense a specialty. Patients requiring surgical therapy must be selected with consideration of other forms of therapy. It is our belief that the medical student needs, early in his training, to become aware of this. It is important that we have a feeling of the background from which surgical patients come. The widest possible experience that we can provide a student with which to attain such an objective is to have him rotate

through the general surgical and specialty clinics of the out-patient department. Not only does this provide a background for the source of patients, but also it affords an opportunity for him to see what surgical therapy may accomplish, and to see its associated complications that are to be observed in the minor surgical dressing clinics where patients return following surgery that has been performed within the hospital.

It is the intent that the student during his third year will learn the scope of surgery in therapy and diagnosis. At the same time he should become aware of the risks and complications commonly associated with it. If these two objectives are attained, then the student has a sound basis for selecting surgical therapy where indicated. This may be the beginning of the sense of discrimination in the selection of proper treatment so important in the armamentarium of a physician, regardless of his special interest, be it in general practice or a specialty.

FOURTH YEAR . . . In the fourth year the medical student becomes a clinical clerk on the surgical pavilions. The class is divided into six equal groups, each group serving for a term of approximately eight weeks, during which time they have no other responsibilities than those in surgery. As a clinical clerk the student participates in the management of patients by obtaining a complete history and performing a physical examination and laboratory determinations on patients assigned to him. He has an opportunity to participate in the differential diagnosis and preoperative preparation. When the patient is operated upon, the student may act as a member of the operating team. He has an opportunity to see at first-hand the pathological condition for which the operation was undertaken. He has specific responsibilities in the postoperative care of the patient. Thus the fourth year student is, in a sense, an intern under supervision. He attends the rounds held by the resident staff and members of the senior staff:

PEDIATRIC SURGERY. The students are assigned in rotation to the pediatric surgical unit. History taking and physical examination are supplemented by participation in operations. Ward rounds are conducted weekly for the students by the attending staff.

FRACTURE CONFERENCE. In the late afternoon on Tuesday a conference conducted by the senior and resident staff, reviewing the fracture patients, is attended and participated in by the surgical clinical clerks.

GRAND ROUNDS. From 9 to 10:30 on Saturday mornings clinical clerks attend grand rounds together with the entire resident and senior staff of the department. The problems presented are selected for their teaching value from the surgical specialties and general surgery.

EMERGENCY SERVICE. The clinical clerks on the surgical pavilions are rotated in pairs to the emergency service where they are on call with the resident staff. This is a very active unit of the hospital during the hours when the out-patient clinics are closed—from 5 p.m. to 9 a.m., Monday through Friday, and over the weekend. The wide range of conditions requiring emergency or urgent measures seen by the clinical clerk is a valuable experience.

PATHOLOGY CONFERENCE. Once a week a two-hour conference is devoted to surgical pathology. Surgical specimens removed in the operating room are reviewed, and also microscopic slides are studied.

NOON CLINICAL CONFERENCE. Five times a week a clinical conference is held at the bedside. Diagnosis, preoperative and postoperative care, and complications in general surgery and the specialties are discussed.

SEMINAR. On Saturdays from 10:30 to 12:30 throughout the term, seminars are held under the supervision of a senior staff member. In these sessions the students present new advancements of surgery. It is the objective of these exercises to place in the hands of the medical student a means of evaluating a new development in surgery, so that as a physician later he will be able to better assess in a methodical and critical manner new proposals. Thus he may provide proper guidance for his patients.

By constant and uninterrupted association with "his" patients and those who are caring for them, the student gains direct experience with the normal course following major surgical procedures and with complications as they arise. The value of team work in medical care is vividly apparent to the fourth year student during his clinical clerkship on surgery.

ELECTIVE COURSES

ANESTHESIOLOGY . . . Maximum of two students. Four or eight weeks throughout the year. Daily seminars in the theory of anesthesia are combined with practical experience in the administration of anesthesia. The student may participate under supervision in the operating room in the administration of anesthesia.

SURGICAL RESEARCH LABORATORY . . . Maximum of two students during each term. The students participate in the experimental study of peptic ulcer, cardiovascular surgery, liver disease, and transplantation of tissues. The participation in experimental operative procedures is stressed. Experiments in surgical physiology may be done in association with members of the surgical staff. Students may also take part in the studies of surgical metabolism and the response of surgical patients to operation. A weekly surgical research meeting is held.

SURGICAL PATHOLOGY . . . Maximum of two students for four or eight weeks throughout the year. A discussion is conducted each morning when the slides are read and the histologic diagnosis is made. An opportunity is provided to assist in the gross examination of the surgical specimens each afternoon. Instruction is given in the technique of frozen sections.

STUDENT CLERKSHIP . . . Individual arrangement may be made to participate in the surgical specialties as substitute interns for four to eight weeks in urology, plastic surgery, neurosurgery, and fractures. Each service has daily teaching rounds and weekly seminars. Experience in patient management and in the operating room is stressed.

SURGICAL PHYSIOLOGY . . . Maximum of four students. Eight weeks' course, throughout the year. Complete study of electrolyte balance. Students participate in clinical patient care under the supervision of attending physicians. Supplemented by lectures and group discussions.

CARDIOVASCULAR SURGERY . . . An opportunity is available for one student each period to participate in laboratory and clinical use of the extracorporeal pump-oxygenator.

ORTHOPEDIC SURGERY . . . Maximum of four students for eight weeks. Active participation on the in-patient services with emphasis on children's orthopedics, including experience in the operating theater. Out-patient activities including those special clinics which fit the student's particular interests. Interview arranged through Medical Education Office, Hospital for Special Surgery.

HOSPITAL FOR SPECIAL SURGERY . . . Immunopathology. Maximum of two students throughout the year. An introduction to a challenging area of research which lies at the boundary between pathology and immunology. The cellular origin of antibodies and pathologic immunoglobulins, experimental hypersensitivity, autoimmunity, and rheumatic diseases. The student will be expected to become familiar with the method of immunofluorescence in theory and in practice.

Immunology. One student throughout the year. Laboratory training in immunologic approaches to clinical research.

Virology. One student throughout the year. Will provide an opportunity to study the replication of viruses in tissue culture, using such technics as plaque formation, immunofluorescent foci, and other methods, and to study the relationship of viruses to cancer by means of tissue cultures and experimental animals.

Biochemistry. One student throughout the year. Participation in chemical work on serum compounds which inhibit complement fixation reactions; Bence-Jones proteins; normal and pathologic macroglobulinism; rheumatoid factor.

Physiological chemistry. One student throughout the year. Calcium metabolism and the metabolism of the skeleton. Opportunity to become acquainted with principles of the kinetic studies and laboratory procedures involved. The latter may include radioisotopes.

For all the above, interview will be arranged through Medical Education Office, Hospital for Special Surgery.

SPECIAL STUDENTS

ALL STUDENTS not registered in Cornell University Graduate School and not registered for the M.D. degree are SPECIAL STUDENTS.

Such students are SPECIAL STUDENTS in the true sense of the word and must be especially qualified in preparation, ability, and objective in order to receive any consideration. They may or may not be graduate students in the sense of having completed work for a collegiate degree.

Special students are admitted *only by the consent of the head of the department*, must be registered in the Administration Office of the Medical College, and must pay their fees at the Business Office before being admitted to lectures or laboratory exercises.

FEES

Matriculation Fee	\$10
Administration Fee	\$ 5

Tuition fees vary depending upon the type of work taken. A breakage fee may be required.

TABLE OF REQUIRED HOURS

	<i>First Year</i>	<i>Second Year</i>	<i>Third Year</i>	<i>Fourth Year</i>	<i>Total</i>
ANATOMY:					
Gross Anatomy	246				
Microscopic Anatomy	165				
Neuroanatomy	84				
Developmental Anatomy and Genetics	77				572
BIOCHEMISTRY	220				220
MICROBIOLOGY & IMMUNOLOGY		154			154
PHYSIOLOGY	231				231
RADIOBIOLOGY	11				11
PATHOLOGY		297			297
PHARMACOLOGY		154		11	165
PHYSICAL DIAGNOSIS *		187			187
MEDICINE:					
Clinical Pathology		77			
Specialties, Clerkship, & OPD.....			352	325	
Lectures			33		787
MEDICAL COMPREHENSIVE CARE †.....				300	300
SURGERY:					
Ophthalmology					
Introductory Surgery					
Specialties, Clerkship, & OPD.....			352	285	
Lectures			33		670
OBSTETRICS AND GYNECOLOGY:					
Practical Instruction			77	285	
Lectures			66		428
PEDIATRICS:					
Practical Instruction			154	86	
Lectures			33		
Contagious Diseases			18		291
PSYCHIATRY:					
Personality Development	33				
Psychiatry		33	33	66	
Lectures				33	198
PUBLIC HEALTH:					
Parasitology		33			
Field and Section		12	36	14	
Lectures		11	33		139
RADIOLOGY			30	20	50
ELECTIVE HOURS		165		285	450
TOTALS	1067	1123	1250	1710	5150

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† The Medical Comprehensive Care Program is a joint project of all clinical departments and the department of public health. In addition to the 300 hours not assigned to any one department, this program embraces the assigned fourth year curricular hours of medicine and pediatrics and part of those of psychiatry.

FIRST YEAR SCHEDULE
1962-1963

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday				
9–10	Microscopic Anatomy	Gross Anatomy	Developmental Anatomy and Genetics	Gross Anatomy	Microscopic Anatomy	Developmental Anatomy and Genetics				
10–11						Microscopic Anatomy				
11–12										
12–1										
1–2	Biochemistry	Developmental Anatomy and Genetics	Free	Biochemistry	Biochemistry					
2–3	Microscopic Anatomy	Gross Anatomy		Psychiatry	Microscopic Anatomy					
3–4		Developmental Anatomy and Genetics		Free						
4–5										

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neuroanatomy	Physiology	Physiology	Physiology	Gross Anatomy	Physiology
10-11		Gross Anatomy	Neuroanatomy	Neuroanatomy		Psychiatry
11-12						
12-1						
1-2	Biochemistry		Free	Biochemistry	Biochemistry	
2-3	Gross Anatomy	Gross Anatomy		Psychiatry	Gross Anatomy	
3-4				Free		
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Biochemistry	Physiology	Biochemistry	Physiology	Biochemistry	Physiology
10-11						Radio-biology *
11-12						
12-1						
1-2	Biochemistry	Physiology	Free	Physiology	Physiology	
2-3						
3-4						
4-5					Free	

* Multidepartmental course.

SECOND YEAR SCHEDULE
1962-1963

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pharmacology	Pathology	Pharmacology	Pathology	Pharmacology	Pharmacology
10-11			Microbiology			Microbiology
11-12						
12-1						
1-2						
2-3	Microbiology	Microbiology	Free	Microbiology	Microbiology	
3-4		Pharmacology				
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Pathology	Pathology	Pathology	Pathology	Pathology	Pb. Hl.†
10-11			Pharmacology			
11-12						
12-1						
1-2						
2-3	Pb. Hl.	Clinical Pathology	Free	Parasitology	Pharmacology	
3-4	Clinical Pathology				Clinical Pathology	
4-5						

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-10	Neurology (9:00-12:00) Group A	Neurology (9:00-12:00) Group B	Neurology (9:00-12:00) Group C	Neurology (9:00-12:00) Group D	Psychiatry	Elective
10-11						
11-12					Neurology Lecture	
12-1	Elective Groups B, C, D	Elective Groups A, C, D	Elective Groups A, B, D	Elective Groups A, B, C		
1-2						
2-3	Physical Diagnosis *	Physical Diagnosis *	Physical Diagnosis *	Elective	Physical Diagnosis *	
3-4						
4-5						

* Includes medical, neurological, surgical, and gynecological aspects of physical diagnosis.

† For four weeks only, beginning after Christmas recess.

THIRD YEAR SCHEDULE

1962-1963

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Group A: Medicine (1); Ob.-Gyn., Ped., Psych., Pb. Hl. (2); Surgery (3). Group B: Surgery (1); Medicine (2); Ob.-Gyn., Ped., Psych., Pb. Hl. (3). Group C: Ob.-Gyn., Ped., Psych., Pb. Hl. (1); Surgery (2); Medicine (3).					
1-2			Free			
2-3						
3-4						
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERM (5½ WEEKS)

PEDIATRICS

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Pediatrics				
1-2		Pediatrics	Free	Pediatrics		
2-3						
3-4	Pediatrics					
4-5	C.P.C.					

DETAILED SCHEDULE—HALF TERMS (5½ WEEKS)

OBSTETRICS AND GYNECOLOGY, PSYCHIATRY,
PUBLIC HEALTH, CONTAGIOUS DISEASES

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8:30-9:30	Ob.-Gyn.	Pediatrics	Surgery	Medicine	Pb. Hl.	Ob.-Gyn.
9:30-1:00	Ob.-Gyn.	Ob.-Gyn.	Ped.	Ob.-Gyn.	Pb. Hl.	
1-2						
2-3		Psychiatry	Free	Psychiatry	Pb. Hl.	
3-4						
4-5						

FOURTH YEAR SCHEDULE
TWO SEMESTERS (SIX DIVISIONS, 22½ WEEKS EACH)
JUNE 18 to MAY 25

Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9-1	<div style="display: flex; justify-content: space-between;"> <div> <p>Section I</p> <p>Section II</p> </div> <div> <p><i>1st Semester</i> Medical Comprehensive Care</p> <p>D Elec. (1); Ob.-Gyn. (2); Surg. (3). E Surg. (1); Elec. (2); Ob.-Gyn. (3). F Ob.-Gyn. (1); Surg. (2); Elec. (3).</p> </div> <div> <p><i>2nd Semester</i> Medical Comprehensive Care</p> <p>{ A Elec. (1); Ob.-Gyn. (2); Surg. (3). B Surg. (1); Elec. (2); Ob.-Gyn. (3). C Ob.-Gyn. (1); Surg. (2); Elec. (3).</p> </div> </div>					
1-2						
2-3			Psychiatry			
3-4						
4-5	C.P.C.		Special Lect.			

DETAILED SCHEDULE
MEDICAL COMPREHENSIVE CARE

Morning:	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Group	<div style="display: flex; justify-content: space-between;"> <div> <p>I { A Pediatrics B Medicine</p> <p>II { C Seminar D Sp'ty Elec.</p> </div> <div> <p>Medicine Pediatrics</p> <p>Sp'ty Elec. Seminar</p> </div> <div> <p>Pediatrics Medicine</p> <p>Seminar Medicine S</p> </div> <div> <p><i>All Groups</i> (9:00-10:00) Lecture (10:00-11:30) Medical Grand Rounds (12:00-1:00) Radiology</p> </div> <div> <p>Medicine Pediatrics</p> <p>Sp'ty Elec. Seminar</p> </div> <div> <p><i>All Groups</i> Special Conference</p> </div> </div>					
Afternoon:	<div style="display: flex; justify-content: space-between;"> <div> <p>I { A Seminar B Pediatrics Sp'ty Elec.</p> <p>II { C Psychiatry D Medicine</p> </div> <div> <p>Sp'ty Elec. Seminar</p> <p>Medicine Psychiatry</p> </div> <div> <p><i>All Groups</i> (2:00-3:00) Psychiatry (3:00-4:00) Com. Care Conf (4:00-5:00) Special Lecture</p> </div> <div> <p>Seminar Sp'ty Elec.</p> <p>Psychiatry Medicine</p> </div> <div> <p>{ Seminar Pediatrics Medicine Psychiatry (4:00-5:00) <i>All Groups</i> Pediatric Grand Rounds</p> </div> <div></div> </div>					

SLOAN-KETTERING DIVISION, GRADUATE SCHOOL OF MEDICAL SCIENCES

CORNELL UNIVERSITY MEDICAL COLLEGE

BY AGREEMENT dated June 16, 1950, between Cornell University, Sloan-Kettering Institute for Cancer Research, Memorial Center for Cancer and Allied Diseases, and the Society of the New York Hospital, a graduate division of Cornell University Medical College was established to be known as the Sloan-Kettering Division of Cornell University Medical College.

Under this agreement, each party continues under control and management of its respective Board of Trustees or Managers, but there is established a Coordinating Board of eight members, of which two are chosen by each of the parties to this agreement. This Board acts as a clearing house of information and as a coordinator of those functions in which all of the parties to this agreement are interested and makes recommendations to the respective Boards of the parties to the agreement.

The Coordinating Board of the Sloan-Kettering Division of Cornell University Medical College consists at present of the following members:

Representatives of Memorial Hospital

Reginald G. Coombe

B. Brewster Jennings

Representatives of Sloan-Kettering Institute

Warren Weaver

Frank L. Horsfall, Jr.

Representatives of Cornell University

Walker L. Cisler, Chairman of the Executive Committee of the Board of Trustees
Deane W. Malott, President of the University

Representatives of the Society of The New York Hospital

Francis Kernan

Frederick K. Trask

EDUCATIONAL PLAN OF INSTRUCTION

The facilities of the Sloan-Kettering Division consist of a thirteen-story laboratory unit at 410 East 68th Street, New York City, the Polak Building at 112 Pacific Street, Brooklyn, and the Walker Laboratory at 145 Boston Post Road, Rye, New York. Collectively these facilities represent the Sloan-Kettering Institute for Cancer Research. The New York City laboratory is in direct connection

with two hospitals; Memorial Hospital, a voluntary institution of 280 beds, and the James Ewing Hospital, a unit of the New York City Hospital system with 270 beds. The Strang Clinic, a building at 419 East 67th Street, New York City, houses the work in preventive medicine in cancer.

The training offered in this Division is primarily for advanced students, with the Master's degree or equivalent, working toward the Ph.D. degree. The plan of organization for teaching and research affords ample opportunities for direct participation in investigative work on cancer and allied diseases in recognized divisions of the physical and biological sciences but not in any of the clinical fields.

BIOCHEMISTRY

AARON BENDICH, Professor of Biochemistry
 OSCAR BODANSKY, Professor of Biochemistry
 GEORGE B. BROWN, Professor of Biochemistry
 LIEBE F. CAVALIERI, Professor of Biochemistry
 THOMAS F. GALLAGHER, Professor of Biochemistry
 C. CHESTER STOCK, Professor of Biochemistry

M. EARL BALIS, Associate Professor of Biochemistry
 RALPH K. BARCLAY, Associate Professor of Biochemistry
 JACK J. FOX, Associate Professor of Biochemistry
 DAVID K. FUKUSHIMA, Associate Professor of Biochemistry
 MARY L. PETERMANN, Associate Professor of Biochemistry
 MORTON K. SCHWARTZ, Associate Professor of Biochemistry

ELLEN BORENFREUND, Assistant Professor of Biochemistry
 H. LEON BRADLOW, Assistant Professor of Biochemistry
 JOHN F. CODINGTON, Assistant Professor of Biochemistry
 PAUL J. FODOR, Assistant Professor of Biochemistry
 SAUL GREEN, Assistant Professor of Biochemistry
 DIETRICH HOFFMANN, Assistant Professor of Biochemistry
 JEROME S. NISSELBAUM, Assistant Professor of Biochemistry
 GIULIO C. PERRI, Assistant Professor of Biochemistry
 ROBERT S. ROSENFELD, Assistant Professor of Biochemistry
 JOSEPHINE S. SALSER, Assistant Professor of Biochemistry
 VLADIMIR P. SKIPSKI, Assistant Professor of Biochemistry
 HELEN Q. WOODARD, Assistant Professor of Biochemistry

Research Associates:

Jack Fishmann

Ivan L. Salamon

Intensive study is offered in the fields of enzymology, immunochemistry, chemistry and metabolism of proteins and nucleoproteins, and chemistry and metabolism of steroids.

Undergraduate prerequisites include courses in inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, and mathematics (through calculus). If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Students electing biochemistry as a minor subject are expected to complete the regular medical course in biochemistry, or its equivalent, as a minimum requirement.

BIOLOGY

ALBERT J. DALTON, Visiting Professor of Biology
FRANK L. HORSFALL, JR., Professor of Microbiology
FREDERICK S. PHILIPS, Professor of Pharmacology
GEORGE W. WOOLLEY, Professor of Biology

CHARLOTTE FRIEND, Associate Professor of Microbiology
LEONARD D. HAMILTON, Associate Professor of Biology
DORRIS J. HUTCHISON, Associate Professor of Microbiology
JOHN A. JACQUEZ, Visiting Associate Professor of Biology
WILLIAM L. MONEY, Associate Professor of Biology
ALICE E. MOORE, Associate Professor of Biology
H. CHRISTINE REILLY, Associate Professor of Microbiology
MARJORIE B. ZUCKER, Associate Professor of Physiology

JOHN J. HARRIS, Assistant Professor of Biology
PHILIP C. MERKER, Assistant Professor of Biology
WILBUR F. NOYES, Assistant Professor of Biology
LLOYD J. OLD, Assistant Professor of Biology
MORRIS N. TELLER, Assistant Professor of Biology

Research Associates:

June L. Biedler	Herbert S. Schwartz
James G. Cappuccino	Francis M. Sirotnak
Louis Kaplan	Robert W. Speir

Students are directed particularly toward the factors which initiate, control, and modify the growth of normal and neoplastic tissues. Following this orientation, study is offered in pharmacology, experimental cancer chemotherapy, microbiology, endocrinology, genetics, and virology. Brief specialized courses offered include Chemotherapy of Cancer (for physicians and research workers), two weeks in October; Heterologous Transplantation of Human Tumors (for senior investigators), first week of March and of October.

Undergraduate prerequisites include courses in organic chemistry, inorganic chemistry, qualitative chemistry, quantitative chemistry, physical chemistry, physics (mechanics, electricity and magnetism, and sound, heat, light), biochemistry, mathematics (through calculus), anatomy, general biology or general zoology or general botany, general microbiology, pathogenic bacteriology, physiology, cytology, and genetics. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

Prerequisite graduate courses will be determined for each individual on the basis of his particular area of interest.

BIOPHYSICS

JOHN S. LAUGHLIN, Professor of Biophysics

NATHANIEL F. BARR, Assistant Professor of Biophysics
EDWARD R. EPP, Assistant Professor of Biophysics
IRA PULLMAN, Assistant Professor of Biophysics

Research Associates:

Karin R. Corey	Harold Moroson
Nicholas Delihias	James G. Van Dyke
Peter J. Kenny	

Graduate work is offered by this department leading to the degrees of Master of Science (in the field of radiation physics) and Doctor of Philosophy (in the field of biophysics).

The course of study leading to the degree of Master of Science in radiation physics trains physicists in the various aspects of production, measurement, and application of radiations. X-ray and electron machines are available with energies ranging from 5 Kev to 25 Mev. Experience is also provided in the handling and use of many different radio-isotopes. The magnitude and variety of facilities and unique radiation projects at the Sloan-Kettering Institute and the Memorial Hospital are particularly pertinent for training in this area. An important feature is the co-existence of fundamental research and practical and clinical applications in the same Center.

Some of the research projects in biophysics which are pertinent to the Ph.D. program include studies of metabolism of various isotope-labeled compounds in man; the measurement of radiation by calorimetric, radiation-chemical, ionization, or crystal detectors; the experimental measurement of total X-ray, gamma-ray, and electron spectra; the determination of free radical activity in compounds of biological importance by means of electron spin resonance; the determination of trace elements in biologically important compounds; metabolism of biologically important compounds in tissue cultures of human tumor cells.

Undergraduate prerequisites include courses in general physics, electricity and magnetism, mechanics, mathematics (through calculus), and thermodynamics, and acceptable laboratory experience in these fields. If any of these requirements have not been fulfilled at the undergraduate level, they must be taken at the onset of graduate study.

PATHOLOGY

GILBERT DALLDORF, Professor of Pathology

FRANK W. FOOTE, Professor of Pathology

FRED W. STEWART, Professor of Pathology, Emeritus

JORGEN E. FOGH, Associate Professor of Pathology

LEOPOLD G. KOSS, Associate Professor of Pathology

LOUIS G. ORTEGA, Associate Professor of Pathology

STEPHEN S. STERNBERG, Associate Professor of Pathology

HELENE W. TOOLAN, Associate Professor of Pathology

JOHN W. BERG, Assistant Professor of Pathology

CHARLES P. MILES, Assistant Professor of Pathology

Research Associates:

Robert V. P. Hutter

Frederick H. Shipkey

Myron R. Melamed

Special facilities are available for investigation in quantitative cytology and cellular pathology by newer optical methods, cytophysical methods including radio-autography, electron microscopy, ultraviolet and fluorescent microscopy. A regular part of the functions of this department include examinations of the pathologic effects of potential cancer chemotherapeutic agents in laboratory animals.

Study in this department is limited to persons who hold a medical degree and whose experience includes two years of general pathology.

PREVENTIVE MEDICINE

EMERSON DAY, Professor of Preventive Medicine

LEO WADE, Associate Professor of Preventive Medicine

ERNEST L. WYNDER, Associate Professor of Preventive Medicine

GENEVIEVE M. BADER, Assistant Professor of Preventive Medicine

RICHARD H. OSBORNE, Assistant Professor of Preventive Medicine

LOUIS VENET, Assistant Professor of Preventive Medicine

Research Associates:

Frances V. DeGeorge

Thomas S. Zimmer

Elaine G. Diacumakos

Opportunity for direct experience in methods of cancer detection is offered in the Strang Clinic by arrangement with the department head. Training in cytologic screening and diagnosis is available by special arrangement with the director of the Strang Laboratory of Cytology.

The department offers opportunities for research in early cancer and pre-cancer, cytology, epidemiology of cancer, and biological testing and chemical analyses of environmental agents. Special studies in these fields can be arranged with the appropriate members of the department.

Prerequisites are a degree in medicine or advanced training and experience in the field concerned.

A three- to five-day course, for general practitioners, in the diagnosis and management of early cancer is offered one or more times each year. The dates of each course are announced in hospitals and in medical journals sufficiently in advance to allow for scheduling and preregistration.

INTERNSHIP APPOINTMENTS

CLASS OF 1962

Abel, Donald W.	Surg.	The New York Hospital, New York, N.Y.
Ahearn, A. Mason	Surg.	University of Chicago Clinics, Chicago, Ill.
Bagdade, John D.	Med.	Boston City Hospital, V and VI Med. Boston, Mass.
Banta, John V.	Surg.	The New York Hospital, New York, N.Y.
Barnard, Bryant	Surg.	The New York Hospital, New York, N.Y.
Beirne, Harry M.	Rot.	Genesee Hospital, Rochester, N.Y.
Braniff, Blaine A.	Med.	The New York Hospital, New York, N.Y.
Brennan, Robert W.	Med.	The New York Hospital, New York, N.Y.
Brill, Paula W.	Ped.	Bronx Municipal Hospital Center, New York, N.Y.
Brunstetter, Frank H.	Rot.	Wright Patterson Field, Dayton, Ohio
Buck, Alfred S.	Surg.	Bellevue Hospital, 2nd Div., New York, N.Y.
Carmick, Edward S., Jr.	Rot.	Philadelphia Naval Hospital, Philadelphia, Pa.
Carnesale, Peter G.	Surg.	Barnes Hospital, St. Louis, Mo.
Cestone, Kenneth J.	Rot.	Mary Fletcher Hospital, Burlington, Vt.
Chaffee, William G., Jr.	Rot.	San Francisco Hospital, San Francisco, Calif.
Charlton, J. Kipp	Med.	University Hospitals, Columbus, Ohio
Croft, Joseph D., Jr.	Med.	Strong Memorial Hospital, Rochester, N.Y.
Davidson, Richard A.	Mx-Med.	Genesee Hospital, Rochester, N.Y.
Dean, Edwin E.	Med.	N. Carolina Memorial Hospital, Chapel Hill, N.C.
Degnan, Walter C.	Mx-Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Edelstein, Arthur V.	Med.	Genesee Hospital, Rochester, N.Y.
Ettinger, Edwin	Med.	The New York Hospital, New York, N.Y.
Fessenden, Willard B.	Rot.	University Hospitals, Cleveland, Ohio
Fillmore, Sidney J.	Med.	The New York Hospital, New York, N.Y.
Fredericks, Edward J.	Rot.	Hartford Hospital, Hartford, Conn.
Gilford, Howard M.	Rot.	Mount Sinai Hospital, Cleveland, Ohio
Gundy, John H.	Path.	The New York Hospital, New York, N.Y.
Gustafson, Robert K.	Surg.	Vanderbilt University Hospital, Nashville, Tenn.
Halpin, Jack D.	Rot.	Charity Hospital of Louisiana, New Orleans, La.
Hare, Daphne K.		No Internship
Harvey, William C.	Rot.	Hartford Hospital, Hartford, Conn.
Hazzard, William R.	Med.	The New York Hospital, New York, N.Y.
Heiges, David L.	Rot.	Memorial Hospital, Long Beach, Calif.
Hild, Allan S.	Rot.	Hartford Hospital, Hartford, Conn.
Hoff, Julian T.	Surg.	The New York Hospital, New York, N.Y.
Jansing, C. William	Surg.	Medical College of Virginia, Richmond, Va.
King, Muriel	Ped.	University Hospitals, Madison, Wisc.
Knott, Stuart A.	Rot.	Henry Ford Hospital, Detroit, Mich.
Korenman, Gary	Mx-Med.	St. Luke's Hospital, New York, N.Y.
Lauber, Edward C., Jr.	Mx-Surg.	St. Luke's Hospital, New York, N.Y.
Leckband, Garwood E.	Rot.	Mount Sinai Hospital, New York, N.Y.
Littell, Andrew H., Jr.	Path.	The New York Hospital, New York, N.Y.
Lowe, Luther B.	Ped.	The New York Hospital, New York, N.Y.
MacLean, Robert A.	Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Mandell, Gerald L.	Med.	The New York Hospital, New York, N.Y.
McCracken, George H.	Med.	The New York Hospital, New York, N.Y.
McFadden, R. Bruce	Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Miller, Warren B.	Rot.	Mary Imogene Bassett Hospital, Cooperstown, N.Y.
Morrison, Richard M.	Surg.	Medical College of Virginia, Richmond, Va.
Niles, Richard A.	Surg.	N. Carolina Memorial Hospital, Chapel Hill, N.C.
Nilsen, Laurance B.	{ Mx-Ped. Major	Strong Memorial Hospital, Rochester, N.Y.

O'Keefe, Dennis D.	Surg.	Massachusetts General Hospital, Boston, Mass.
Omura, George A.	Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Orme, S. Kirby	Med.	Johns Hopkins Hospital, Baltimore, Md.
Raziano, Joseph V.	Surg.	The New York Hospital, New York, N.Y.
Remen, Rachelle N.	Ped.	The New York Hospital, New York, N.Y.
Riley, John W. III	Med.	Presbyterian St. Luke's Hospital, Chicago, Ill.
Romas, Christos	Surg.	The New York Hospital, New York, N.Y.
Saidy, Anthony F.	Rot.	Veterans Administration Hospital, Los Angeles, Calif.
Sallick, Richard M.	Med.	Vanderbilt University, Nashville, Tenn.
Schaffner, William II	Med.	Vanderbilt University, Nashville, Tenn.
Seed, William T.	Ped.	The New York Hospital, New York, N.Y.
Severance, Richard C.	Rot.	Letterman General Hospital, San Francisco, Calif.
Smith, Barry D.	Rot.	Mary Hitchcock Memorial Hospital, Hanover, N.H.
Snider, Thomas H.	Rot.	Brooke General Hospital, San Antonio, Texas
Stadter, Richard P.	Med.	Medical College of Virginia, Richmond, Va.
Stolley, Paul D.	Mx-Med.	University Hospitals, Madison, Wis.
Stroth, Ronald A.	Surg.	Medical College of Virginia, Richmond, Va.
Stubenbord, William T.	Surg.	The New York Hospital, New York, N.Y.
Taintor, Zebulon C.	Mx-Med.	Bellevue Hospital, 2nd Div., New York, N.Y.
Taylor, Dale L.	Med.	Vanderbilt University, Nashville, Tenn.
Tharp, Barry R.	Med.	Duke Hospital, Durham, N.C.
Tilney, Nicholas L.	Surg.	Presbyterian St. Luke's Hospital, Chicago, Ill.
Umlas, Joel	Path.	The New York Hospital, New York, N.Y.
Vander Els, Barth	Med.	Grady Memorial Hospital, Atlanta, Ga.
Vichick, Donald A.	Surg.	Univ. of Utah Affiliated Hospitals, Salt Lake City, Utah
Warburton, John C.	Rot.	St. Joseph's Hospital, Paterson, N.J.
Weisinger, Barbara R.	Mx-Surg.	Georgetown University Hospitals, Washington, D.C.
Weiss, Carl Brook	Rot.	George F. Geisinger Hospital, Danville, Pa.
Winter, Sara B. D.	Rot.	Univ. of Utah Affiliated Hospitals, Salt Lake City, Utah
Youmans, Ceciley	Mx-Med.	Roosevelt Hospital, New York, N.Y.
Zahn, Frederic D.	Surg.	The New York Hospital, New York, N.Y.
Zeigler, Michael G.	Rot.	Walter Reed General Hosp., Washington, D.C.
Zug, Richard C.	Surg.	University of Virginia, Charlottesville, Va.

SYMBOLS: Rot—Rotating; Ped—Pediatrics; Med—Medicine; Path—Pathology; Surg—Surgery; Mx—Mixed.

REGISTER OF STUDENTS, 1962-1963

FOURTH YEAR

Gerald Alfred Anderson, B.S. 1959, University of Wyoming	Savery, Wyo.
Arthur John Atkinson, Jr., A.B. 1959, Harvard College	Chicago, Ill.
Terrence Joseph Barry, A.B. 1952, Harvard College	Ft. Lauderdale, Fla.
James Bruce Bell, A.B. 1959, Allegheny College	Ellwood City, Penna.
Dennis Philip Berk, A.B. 1959, Yale University	Whitefish Bay, Wis.
Paul Abraham Bienstock, A.B. 1959, Harvard College	New York, N.Y.
Robert Throne Binford, Jr., B.A. 1951, Vanderbilt University; D.M.D. 1955, M.S. 1959, University of Alabama	Birmingham, Ala.
Herbert Spencer Bloch, A.B. 1959, Amherst College	Canton, N.Y.
George Richard Blumenschein, A.B. 1959, Yale University	Elmhurst, Ill.
Francis Matthew Bohan, B.S. 1959, Manhattan College	New York, N.Y.
William Francis Brereton, Jr., A.B. 1959, Yale University	Harrison, N.Y.
Hollister Peter Brewster, B.S. 1959, Long Island University	Brooklyn, N.Y.
Woodward Burgert, Jr., A.B. 1959, Williams College	Highland Park, Ill.
Charles Worden Carpenter, A.B. 1959, Cornell University	Binghamton, N.Y.
James Joseph Coatsworth, A.B. 1959, Cornell University	New York, N.Y.
Edward Meadors Copeland III, A.B. 1959, Duke University	McDonough, Ga.
William Joseph Deely, A.B. 1959, Columbia College	New York, N.Y.
Joseph Michael Deignan, Jr., B.S. 1957, Rutgers University	West Orange, N.J.
Carlos Guillermo Garcia de Paredes, A.B. 1959, DePauw University	Panama City, Panama
Richard Barry Dicus, A.B. 1959, University of Arizona	Ajo, Ariz.
Carl Herbert Dieterle, B.S. 1955, Cornell University	Milwaukee, Wis.
Franklin George Dill, B.E.E. 1956, Cornell University	Oklahoma City, Okla.
Steven Daniel Douglas, A.B. 1959, Cornell University	Jamaica, N.Y.
Richard Hemenway Dyer, Jr., A.B. 1959, Cornell University	Madison, N.J.
Richard Michael Ehrlich, A.B. 1959, Cornell University	New Rochelle, N.Y.
J. Peter Fegen, Jr., B.S. 1959, John Carroll University	Rocky River, Ohio
Thomas Patrick Forde, A.B. 1959, Fordham University	New York, N.Y.
Floyd David Fortuin, A.B. 1959, Amherst College	Ridgewood, N.J.
Michael David Gershon, A.B. 1958, Cornell University	Craryville, N.Y.
Jonathan Victor Goldstein, A.B. 1959, Cornell University	Rochester, N.Y.
Roscoe Bruce Guy, A.B. 1958, New York University	New York, N.Y.
Lewis Charles Hahn, B.S. 1959, University of Michigan	Queens Village, N.Y.
Robert Anthony Hatcher, A.B. 1959, Williams College	Douglaston, L.I., N.Y.
Everett George Heinze, Jr., A.B. 1959, Cornell University	Smithtown, N.Y.
Charles Hart Hill, A.B. 1959, Cornell University	Allentown, Pa.
King Kennard Holmes, A.B. 1959, Harvard College	Huntington, N.Y.
Jonathan Hughes Horne, B.S. 1960, University of Utah	Salt Lake City, Utah
Charles Edward Hull, B.S. 1959, Ohio State University	New York, N.Y.
Marriott Conrad Johnson, Jr., A.B. 1959, Williams College	Woodmere, N.Y.
Louis Robert Jordan, A.B. 1959, Cornell University	Southport, Conn.
Monroe Stuart Karetzky, A.B. 1959, Cornell University	Brooklyn, N.Y.
Alfred Nathaniel Krauss, A.B. 1959, Cornell University	Miami Beach, Fla.
Howard Eric Kulin, A.B. 1959, Harvard College	Worcester, Mass.
Walter Joseph Loehr, B.S. 1959, Manhattan College	Brooklyn, N.Y.
David Bacon Marcotte, B.S. 1958, St. Lawrence University	Bloomfield, N.J.
Arthur Mazyck, A.B. 1959, University of Virginia	Dothan, Ala.
John William McIvor, A.B. 1959, Cornell University	Detroit, Mich.
Philip Bartlett Mead, A.B. 1959, Hamilton College	Delmar, N.Y.
Craig Arnold Mehldau, B.S. 1955, Trinity College	Brooklyn, N.Y.
Elinor Miller, A.B. 1959, Cornell University	Valley Stream, N.Y.
Conner Miles Moore, B.A. 1960, Dartmouth College	Larchmont, N.Y.

John Philip Morey, A.B. 1959, Rutgers University
 Timothy Bovie Moritz, A.B. 1959, Ohio State University
 John Bennett Morrison, B.S. 1960, St. Lawrence University
 Theodore Christian Nagel, A.B. 1959, Wesleyan University
 Brian Robson Nagy, A.B. 1959, DePauw University
 Ralph Anthony O'Connell, A.B. 1959, College of the Holy Cross
 Richard Dennis O'Toole, A.B. 1956, Williams College
 Stephen Csaba Padar, A.B. 1959, Cornell University
 Frank John Paolitto, A.B. 1959, Columbia University
 Alfred Francis Parisi, A.B. 1959, Georgetown University
 Kirk Lowery Peterson, A.B. 1960, Stanford University
 Paul Aaron Redstone, A.B. 1959, Yale University
 Alexander Garden Reeves, Williams College
 Barton Douglas Schmitt, B.E. 1959, Yale University
 Donald Andrew Schmutz, A.B. 1959, Providence College
 Steve Scholtz, A.B. 1959, Stanford University
 Joel Edward Sherlock, B.S. 1959, St. Peter's College
 Louis Miles Spencer, A.B. 1959, University of California, L.A.
 Benjamin Barkley Storey, A.B. 1959, University of Kentucky
 Richard George Suscy, A.B. 1959, Amherst College
 Martin Bennett Taliak, Jr., B.S. 1959, Denison University
 Garrett Rezeau Tucker III, A.B. 1959, Amherst College
 Edwin Arnold Turner, Jr., B.S. 1959, Wheaton College
 William Smith Tyler, A.B. 1959, Cornell University
 Donald Elkes Wallens, A.B. 1959, Cornell University
 Robert Louis Wegryn, A.B. 1959, Cornell University
 Martin Harvey Weiss, A.B. 1960, Dartmouth College
 Kuhrt Wieneke, Jr., A.B. 1959, Williams College
 Robert Joseph Winchester, B.S. 1958, Manhattan College
 Joel Edward Winker, A.B. 1959, Westminster College
 Steven Ira Woodrow, A.B. 1959, Columbia College
 Stuart Eugene Wunsh, A.B. 1959, Alfred University

Asbury Park, N.J.
 Columbus, Ohio
 Harrison, N.Y.
 Leonia, N.J.
 Warwick, R.I.
 Larchmont, N.Y.
 New York, N.Y.
 Brooktondale, N.Y.
 New York, N.Y.
 Mt. Vernon, N.Y.
 Los Angeles, Calif.
 Woodmere, N.Y.
 Tuxedo Park, N.Y.
 Steger, Ill.
 Stewart Manor, L.L., N.Y.
 Pasadena, Calif.
 Jersey City, N.J.
 Corona Del Mar, Calif.
 Lexington, Ky.
 Montauk Point, N.Y.
 Berea, Ohio
 Houston, Texas
 Balmar, N.J.
 Groton, N.Y.
 Buffalo, N.Y.
 New York, N.Y.
 Newark, N.J.
 Dorset, Vt.
 Yonkers, N.Y.
 Mascoutah, Ill.
 Yonkers, N.Y.
 New York, N.Y.

THIRD YEAR

Jerry Lee Acosta, A.B. 1960, Cornell University
 John Evi Adams, A.B. 1959, Swarthmore College
 James Ernest Bernstein, A.B. 1960, Harvard College
 Jerome Wolf Bettman, Jr., A.B. 1960, Stanford University
 Paxton Cady, A.B. 1952, Harvard College
 William Lowell Campbell, A.B. 1960, Duke University
 Robert Joseph Capone, A.B. 1960, Columbia College
 David Lawrence Cappiello, A.B. 1960, Harvard College
 Donald Catino, A.B. 1960, Princeton University
 David Nemser Cohen, A.B. 1960, Yale University
 John Milton Coletti, Jr., B.S. 1960, Univ. of Wyoming
 Bernhoff Allen Dahl, B.S. 1960, Wheaton College
 Ira Stephen Davis, A.B. 1960, Cornell University
 Sarah Savilla Deitrick, A.B. 1960, Wellesley College
 Lewis Martin Drusin, B.S. 1960, Union College
 Burton Arthur Dudding II, A.B. 1960, Harvard College
 Bruce Eugene Dunn, A.B. 1960, Providence College
 Nanci-Ames Early, A.B. 1960, Duke University
 Thomas Michael Josef Engelsing, A.B. 1960, Harvard College
 John Theodore English, Jr., B.S. 1960, Williams College
 Gerald David Fischbach, B.A. 1960, Colgate University
 John Nathan Follansbee, B.S. 1957, United States Military Academy
 Hilton Lawrence Fowler, A.B. 1960, Bowdoin College
 Martha Emily Fowler, B.A. 1960, Barnard College
 Newton Joseph Friedman, A.B. 1960, Cornell University
 Anne Angen Gershon, A.B. 1960, Smith College
 Nikolas Golosow, A.B. 1960, Stanford University

Pueblo, Colo.
 Chapel Hill, N.C.
 New York, N.Y.
 San Francisco, Calif.
 Berkeley, Calif.
 Parkersburg, W. Va.
 Glen Rock, N.J.
 Auburn, N.Y.
 Bloomfield, N.J.
 West Hartford, Conn.
 Salt Lake City, Utah
 Hackensack, N.J.
 Niagara Falls, N.Y.
 Bronxville, N.Y.
 Long Beach, N.Y.
 Parkersburg, W. Va.
 Roosevelt, N.Y.
 Oklahoma City, Okla.
 Berkeley, Calif.
 Irvington, N.J.
 New Rochelle, N.Y.
 Bloomfield Hills, Mich.
 Ellsworth, Me.
 Oklahoma City, Okla.
 Chicago, Ill.
 New York, N.Y.
 South Nyack, N.Y.

- David Kelsey Gordin, A.B. 1961, Dartmouth College
 John Joseph Granato, Jr., B.S. 1960, Manhattan College
 Marshall Leslie Grode, A.B. 1960, Cornell University
 Merritt Richard Hait, B.S. 1960, Stanford University
 Philip Mitchell Hatfield, A.B. 1960, Amherst College
 Arthur Hull Hayes, A.B. 1955, University of Santa Clara
 David Milton Heimbach, A.B. 1960, Cornell University
 Daniel Leslie Jackson, A.B. 1961, Dartmouth College
 Frances Jean Judy, A.B. 1960, Carleton College
 Kim Alan Keeley, A.B. 1960, Yale University
 Thomas Barland Keith, A.B. 1960, Amherst College
 Otto Gustav Klein, Jr., B.A. 1960, Stanford University
 Robert Henry Knopp, A.B. 1960, Colgate University
 David John La Gasse, A.B. 1960, Brown University
 Richard Griffin Lennon, B.A. 1960, Hamilton College
 Issac Louis Lesser, A.B. 1960, Washington University
 Louis David Levi, B.A. 1960, Harvard College
 Karl George Mangold, B.S. 1959, University of Notre Dame
 Nola Rosanoff Marx, A.B. 1959, Cornell University
 Victoria Anne Middleton, A.B. 1961, University of Utah
 Belle Sumter Miller, B.S. 1960, Stanford University
 James McCalmont Miller, A.B. 1960, Hamilton College
 Brian George Miscall, A.B. 1960, Syracuse University
 Kenneth Eugene Mott, B.S. 1961, Purdue University
 Dennis Sophian O'Leary, A.B. 1960, Harvard College
 Lawrence William Raymond, B.C.E. 1956, Manhattan College;
 M.S. 1957, Harvard University
 Robert Hamilton Reid, A.B. 1960, Dartmouth College
 Byron William Riegel, B.S. 1960, Stanford University
 Joseph Elliott Ringland, A.B. 1960, Washington & Lee University
 Richard Mark Robbins, B.S. 1960, Yale University
 William Herbert Robischon, B.S. 1960, Manhattan College
 Michael Freeman Rodi, B.A. 1960, Pomona College
 Stephen Addison Ross, A.B. 1960, Williams College
 Jack Sherman Rounds, Jr., A.B. 1960, Pomona College
 Richard Ronald Sabo, B.S. 1961, University of Notre Dame
 Mehrdad Vakili Sanandaji, A.B. 1960, Harvard College
 Robert Miles Schmidt, B.S. 1960, Yale University
 Robert D. Schrock, Jr., A.B. 1960, Princeton University
 Michael Norman Schwartz, A.B. 1960, Columbia University
 Richard Alan Schwartz, A.B. 1960, Cornell University
 Frederick William Schweizer, B.A. 1960, Williams College
 Gino Victor Segre, A.B. 1960, Princeton University
 John Robert Sellman, A.B. 1960, Pomona College
 Philip Burton Serlin, A.B. 1960, Dartmouth College
 Thomas Charles Shope, A.B. 1960, State Univ. of Iowa
 Barton Lowell Smith, B.S. 1960, Albright College
 Jerry LePow Spivak, A.B. 1960, Princeton University
 Charles Robb Steinberg, A.B. 1960, Brown University
 Jane Boyden Thomson, A.B. 1960, Cornell University
 Peter Dickson Tyler, A.B. 1960, Cornell University
 John David Van Der Decker, A.B. 1959, Houghton College
 Theodore Van Putten, A.B. 1960, Rutgers University
 Thomas Rae Vaughan, Jr., B.S. 1959, Yale University
 Gary I. Wadler, B.S. 1960, Brooklyn College
 Winthrop Peabody Wilcox, A.B. 1960, Bucknell University
 George Frederick Will, Jr., A.B. 1960, Amherst College
 John Derrick Wilsey, B.S. 1960, Davidson College
 John Robert Wilson, A.B. 1960, Cornell University
 Robert Lee Wilson, B.S. 1960, Tufts University
 Judith Joanne Woodruff, B.S. 1960, University of Massachusetts
 John Leverett Ziegler, A.B. 1960, Amherst College
- Connersville, Indiana
 Brooklyn, N.Y.
 Atlantic Beach, N.Y.
 San Jose, Calif.
 Miami, Fla.
 New York, N.Y.
 Lakewood, Ohio
 Rockaway, N.Y.
 Spokane, Wash.
 Pleasantville, N.Y.
 Marion, Iowa
 Helena, Mont.
 Hamburg, N.Y.
 Bloomfield, N.J.
 Weehawken, N.J.
 Mitchell, S. Dak.
 New York, N.Y.
 White Plains, N.Y.
 Staten Island, N.Y.
 Salt Lake City, Utah
 West Orange, N.J.
 Suffield, Conn.
 Forest Hills, N.Y.
 Lafayette, Ind.
 Mission, Kans.
 Albany, N.Y.
 Radnor, Pa.
 Evanston, Ill.
 Irvington-on-Hudson, N.Y.
 Trenton, N.J.
 Newburgh, N.Y.
 San Marino, Calif.
 Neptune City, Avon P.O., N.J.
 Los Angeles, Calif.
 Bozeman, Montana
 Tehran, Iran
 Milwaukee, Wis.
 Omaha, Neb.
 Brooklyn, N.Y.
 Shaker Heights, Ohio
 Union, N.J.
 Forest Hills, N.Y.
 Los Angeles, Calif.
 Bridgeport, Conn.
 Kingston, N.J.
 Reading, Pa.
 Detroit, Mich.
 Yonkers, N.Y.
 Buffalo, N.Y.
 South Hadley, Mass.
 Caldwell, N.J.
 South Orange, N.J.
 Bronxville, N.Y.
 Brooklyn, N.Y.
 Chevy Chase, Md.
 New York, N.Y.
 Winston Salem, N.C.
 Garden City, N.Y.
 Burlington, Vt.
 Philadelphia, Pa.
 Wilton, Conn.

SECOND YEAR

- Jonathan Loewy Adler, A.B. 1961, Colgate University
 Stephen Barry Alberg, A.B. 1961, Oberlin College
 James Paul Baden, A.B. 1961, Cornell University
 Carl Bancoff, A.B. 1960, Cornell University
 Bruce Ryan Bistrian, B.A. 1961, New York University
 Joseph Anthony Boccia, A.B. 1961, St. Peter's College
 Richard A. Borrison, B.S. 1961, Allegheny College
 Peter Frederick Bourlier, A.B. 1961, Georgetown University
 James Augustine Burns, B.S. 1961, Manhattan College
 John Joseph Caronna, B.A. 1961, Fordham University
 Phillip John Catanzaro, B.S. 1961, St. Peter's College
 Barry Allan Cohen, A.B. 1961, Cornell University
 James Norman Davis, B.A. 1961, Cornell University
 David Tappen Dennis, A.B. 1961, Whitman College
 Richard Frederick Dietz, B.S. 1961, Georgetown University
 Edward John Eberhard, B.S. 1959, United States Military Academy
 Anton Farny Eilers, B.S. 1960, University of Wyoming
 Michael John Errico, B.A. 1961, Yale University
 Edmund Francis Fallon, A.B. 1961, Providence College
 James Russell Farina, B.A. 1961, University of Minnesota
 Nicholas John Fortuin, A.B. 1961, Columbia University
 Joseph Charles Frantantoni, B.S. 1959, Fordham University; M.S. 1960, Harvard University
 Ronald Henry Geiger, A.B. 1961, University of Rochester
 John Spellman Glenn, B.S. 1959, Massachusetts Institute of Technology; M.S. 1961, Duke University
 Anthony Allen Goodman, B.A. 1961, Harvard College
 Jeffrey Harold Gordon, B.A. 1961, Amherst College
 Robert Joseph Gottlieb, A.B. 1961, University of Rochester
 Samuel Harold Greenblatt, B.A. 1961, Cornell University
 Richard Farries Greminger, B.A. 1961, Princeton University
 Richard Luis Guerrero, A.B. 1960, University of Massachusetts
 Robert Edward Gwynn, B.A. 1959, Stanford University
 George Edwin Hardy, Jr., B.A. 1961, Albion College
 Richard Makoto Hirata, B.S. 1958, United States Military Academy
 John Othniel Ives, A.B. 1961, Princeton University
 William Simpson Kammerer, Cornell University
 Gustav Edward Kappler III, B.A. 1961, Cornell University
 Dick Katzin, A.B. 1956, Cornell University
 Jeremy Jon Kaye, B.S. 1961, University of Notre Dame
 Edwin Allen Kayser, Jr., B.A. 1961, Cornell University
 Edgar Jackson Kenton III, B.A. 1961, Rutgers University
 Thomas Edward Kohn, B.A. 1961, Amherst College
 Harold George Kunz, Jr., B.A. 1961, Cornell University
 Robert Philip LaFiandra, A.B. 1961, Columbia University
 Jon Lawson Landeen, B.S. 1961, University of Wyoming
 Edward Thomas Lawson, A.B. 1961, Dartmouth College
 Lawrence Paul Levitt, B.S. 1961, Queens College
 Laurice Jean Liddil, A.B. 1961, Stanford University
 Kenneth James Lippman, B.A. 1960, Tufts University
 Morton Daniel Lynn, A.B. 1961, Dartmouth College
 William Peter McCabe, A.B. 1961, Harvard College
 Irvine Gray McQuarrie, B.A. 1961, University of Utah
 Jack Edward Meyer, A.B. 1961, Grinnell College
 Kevin Peter Morrissey, A.B. 1961, Williams College
 Charles Erik Nye, B.A. 1961, Stanford University
 Caldwell Hardy Oliver, Jr., B.A. 1961, Yale University
 Michelle Gabrielle Palmieri, A.B. 1961, Mount Holyoke
 Deborah Reed Pavan, A.B. 1961, Radcliffe College
 Red Bank, N.J.
 Englewood, N.J.
 Hamilton, Ohio
 Philadelphia, Pa.
 Amagansett, N.Y.
 Brooklyn, N.Y.
 Freeport, Pa.
 Scarsdale, N.Y.
 New York, N.Y.
 Jackson Heights, N.Y.
 Jersey City, N.J.
 Scarsdale, N.Y.
 Great Neck, N.Y.
 Portland, Oregon
 Flushing, N.Y.
 Canton, Ohio
 Haden Lake, Idaho
 Bloomfield, N.J.
 Jackson Heights, N.Y.
 New Buffalo, Mich.
 Ridgewood, N.J.
 Brooklyn, N.Y.
 West Milford, N.J.
 Washington, D.C.
 New York, N.Y.
 Albany, N.Y.
 New York, N.Y.
 Potsdam, N.Y.
 Cambridge, N.Y.
 Chelmsford, Mass.
 San Rafael, Calif.
 Midland, Mich.
 Maui, Hawaii
 Norwalk, Conn.
 Whitestone, N.Y.
 Lake Ronkonkoma, N.Y.
 Maplewood, N.J.
 Rhinelander, Wisc.
 Wilmette, Ill.
 Camden, N.J.
 Milwaukee, Wisc.
 Montclair, N.J.
 Englewood Cliffs, N.J.
 Sheridan, Wyo.
 Tarrytown, N.Y.
 Bronx, N.Y.
 Cincinnati, O.
 Harrison, N.Y.
 West Orange, N.J.
 Providence, R.I.
 Ogden, Utah
 Davenport, Iowa
 Jackson Heights, N.Y.
 Minneapolis, Minn.
 Urbana, Ill.
 New York, N.Y.
 Squantum, Mass.

Robert Anthony Pezzulich, A.B. 1961, Cornell University	Clark, N.J.
Lance David Redler, A.B. 1962, Cornell University	Bayside, N.Y.
Terry Reid Rogers, B.A. 1961, Dartmouth College	Bernardsville, N.J.
Lewis Mark Rothman, B.A. 1961, Cornell University	Eastchester, N.Y.
Paul Laurence Samuelson, B.A. 1961, Williams College	Yonkers, N.Y.
Howard Peter Schiele, B.A. 1961, Columbia College	Yonkers, N.Y.
Robert Douglas Schweizer, A.B. 1961, Princeton University	Union, N.J.
Robert Martin Segaul, B.A. 1961, Cornell University	Utica, N.Y.
Joseph Michael Seventko, B.E. 1960, Stevens Institute of Technology	Clifton, N.J.
Steven Hugh Sewall, B.A. 1961, Brown University	West Hartford, Conn.
Stephen Daniel Shappell, A.B. 1961, Columbia University	Yonkers, N.Y.
Dennis Hugh Stephens, B.S. 1962, University of Utah	Ogden, Utah
Richard Philip Stewart, B.A. 1961, Johns Hopkins University	Passaic, N.J.
Thomas Robert Swift, B.A. 1961, Trinity College	Brooklyn, N.Y.
Hillel Isaiah Swiller, B.A. 1961, Cornell University	Brooklyn, N.Y.
Gilbert Carl Thelen, Jr., B.A. 1960, Duke University	Miwaukee, Wis.
Charles Frederick Thurber, B.A. 1961, Colgate University	Valley Stream, N.Y.
Elinor Toaz, B.A. 1961, Wellesley College	Huntington, N.Y.
Frank Anthony Tomao, B.S. 1961, Manhattan College	Brooklyn, N.Y.
Robert John Towers, B.S. 1961, University of Utah	Murray, Utah
Peter Tsairis, B.S. 1960, Trinity College	Hempstead, N.Y.
Betty Ann Ward, A.B. 1961, Boston University	Waverly, Pa.
John Reed Welch, B.A. 1961, University of Arizona	Tucson, Ariz.
Edward Lloyd Westbrook, B.A. 1961, Harvard College	Cambridge, Mass.
Donald Wendell Wilson, B.A. 1961, Harvard College	Newton, Mass.
Anne Stone Yeager, B.A. 1961, Cornell University	Baltimore, Md.
Robert Crabill Young, B.Sc. 1961, Ohio State University	Columbus, O.

FIRST YEAR

Carmine Bedotto, A.B. 1962, Brown University	Hallandale, Fla.
Randall William Bell, B.S. 1959, United States Military Academy	Bronx, N.Y.
John Arthur Boothby, A.B. 1962, Cornell University	Wynnewood, Pa.
Paul David Bostrom, A.B. 1962, Princeton University	Dover, N.J.
James Wesley Bryan, B.S. 1962, Stanford University	Mission, Kansas
Laurence David Carnay, A.B. 1962, Hamilton College	New York, N.Y.
Alexander Soutar Carney, A.B. 1962, Yale University	Irrington, N.Y.
John Joseph Carthy, B.S. 1962, Fordham University	New York, N.Y.
Paul Stuart Clark, A.B. 1962, Princeton University	Fayetteville, N.Y.
James Franklin Corcoran, B.S. 1958, United States Military Academy	Colfax, N.D.
Robert Emmet Curran, A.B. 1962, College of the Holy Cross	Rockville Centre, N.Y.
Andrew Albert Dahl, A.B. 1962, Wesleyan University	Poughkeepsie, N.Y.
J. Thomas Davidson, A.B. 1962, Colgate University	Grand Rapids, Mich.
Peter John DeBell, A.B. 1962, Oberlin College	Passaic, N.J.
John English Deitrick, Jr., A.B. 1962, Princeton University	Bronxville, N.Y.
John Donovan Denney, A.B. 1962, University of Washington	Everett, Wash.
Michael Henry Dosik, A.B. 1962, Cornell University	New York, N.Y.
Patricia Downs, A.B. 1962, Colby College	Bronxville, N.Y.
Francis Joseph Duggan, Jr., B.S. 1962, Fordham University	Margaretville, N.Y.
Paul Henry Dumdey, A.B. 1962, University of New Hampshire	Lisbon, N.H.
Michael Preston Earnest, A.B. 1962, Cornell University	Youngstown, N.Y.
Robert Michael Farrell, B.S. 1962, St. John's University	Flushing, N.Y.
Anthony Stephen Fauci, A.B. 1962, College of the Holy Cross	Brooklyn, N.Y.
Arthur Eugene Fetzer, A.B. 1962, Cornell University	Hartsville, Pa.
Richard Howard Fine, A.B. 1962, Cornell University	Cincinnati, Ohio
Paul Francis Foraste, Jr., A.B. 1962, College of the Holy Cross	Scarsdale, N.Y.
John Edward Franklin, A.B. 1961, Williams College	New York, N.Y.
David Gray Fraser, A.B. 1962, Stanford University	Poughkeepsie, N.Y.
Lynn Miller Gaufin, University of Utah	Midvale, Utah
Robert Dennis Geller, B.M.M.S. 1962, New York University	Bayside, N.Y.
Michael Alan Goodfriend, A.B. 1962, Princeton University	Montrose, N.Y.
Robert Michael Gould, B.S. 1962, Rensselaer Polytechnic Institute	New York, N.Y.

100 CORNELL MEDICAL COLLEGE

John Richard Graybill, A.B. 1962, Cornell University	Abington, Pa.
Price Gripekoven, B.A. 1962, Williams College	Bronxville, N.Y.
David Hunt Gundy, A.B. 1962, Dartmouth College	Rye, N.Y.
Robert Lewis Haggerty, A.B. 1962, Bowdoin College	Hackensack, N.J.
Francis Joseph Hamilton, Jr., A.B. 1962, Hamilton College	Closter, N.J.
Ian Morgan Happer, B.S. 1962, University of North Carolina	Lenoir, N.C.
Richard Anthony Hodder, A.B. 1962, University of Notre Dame	Yonkers, N.Y.
Robert Daniel Hoeldtke, B.A. 1962, Amherst College	Buffalo, N.Y.
Orne Scott Hume, B.S. 1962, Queens College	Bethpage, N.Y.
Mark Hiram Kaplan, A.B. 1962, Cornell University	Brooklyn, N.Y.
John Francis Killilea, Jr., B.A. 1962, University of Notre Dame	Reading, Mass.
James Allan Krick, B.A. 1962, Amherst College	Washington, D.C.
Harry George Lee, A.B. 1962, Williams College	Short Hills, N.J.
Jay Stauffer Lehman, A.B. 1962, Amherst College	Ardmore, Penn.
Stuart Euster Levin, A.B. 1962, Cornell University	Cincinnati, Ohio
Richard Uscher Levine, B.S. 1962, Tufts University	West Englewood, N.J.
Roger Kenneth Lewis, B.A. 1961, University of Florida	West Palm Beach, Fla.
Michael Laurence Lichtig, A.B. 1962, Cornell University	Rumson, N.J.
Hayes Senyi Martin, B.A. 1962, Brown University	New York, N.Y.
I. Ira Mason, B.A. 1962, Columbia University	Bronx, N.Y.
Herbert Odell Mathewson, A.B. 1962, Cornell University	Pelham, N.Y.
James J. McSweeney, Jr., A.B. 1962, Cornell University	Lynn, Mass.
Glenn Adair Meltzer, B.A. 1962, Clark University	Worcester, Mass.
Anthony Wayne Middleton, Jr., University of Utah	Salt Lake City, Utah
Irving William Olender, A.B. 1962, Cornell University	Amsterdam, N.Y.
David Michael Ozonoff, B.S. 1962, University of Wisconsin	Milwaukee, Wisc.
Jacqueline Gail Parthemore, A.B. 1962, Wellesley College	Narberth, Pa.
Arnold Eugene Postlethwaite, B.S. 1962, West Virginia University	New Martinsville, W.Va.
Robert Paul Radin, B.A. 1962, University of Virginia	Tuckahoe, N.Y.
Kenneth Ned Rankin, A.B. 1962, Dartmouth College	Cleveland, Ohio
Donald Laurence Resnick, A.B. 1962, Hamilton College	New Rochelle, N.Y.
Thomas William Revak, A.B. 1960, Cornell University	Mt. Carmel, Pa.
Morris Mark Richman, A.B. 1962, Cornell University	Philadelphia, Pa.
Stewart Samuel Richmond, B.A. 1962, Amherst College	Concord, N.H.
Donald Allen Roberts, B.S. 1962, Washington State University	Richland, Wash.
Paul Frederick Schellhammer, B.S. 1962, University of Notre Dame	Larchmont, N.Y.
Carl Frederick Schiller, B.S. 1962, Yale University	Hershey, Pa.
Steven Kalman Secunda, A.B. 1962, Harvard University	West Newton, Mass.
William Arthur Selvey, B.S. 1962, Hobart College	South Nyack, N.Y.
Mark Melvin Sherman, A.B. 1962, Clark University	Worcester, Mass.
Gary Lee Smith, B.S. 1962, University of Oklahoma	Tulsa, Okla.
John Quinn Stauffer, A.B. 1962, Princeton University	Petersburg, W.Va.
Arthur Harold Stein, A.B. 1962, Harvard University	Norfolk, Va.
Susan Cobb Stewart, B.A. 1962, Smith College	Cleveland, Ohio
Paul Robert Strack, A.B. 1962, Seton Hall University	Maplewood, N.J.
Everett Van Dyke Sugarbaker, B.S. 1962, Wheaton College	Jefferson City, Mo.
Robert Joseph Sullivan, Jr., A.B. 1962, Colgate University	San Diego, Calif.
Gerald Roman Sydorak, Cornell University	New York, N.Y.
David Neil Tucker, Tufts University	Great Neck, N.Y.
John Chapman Urbaitis, B.S. 1962, Allegheny College	Warren, Pa.
John Price Witwer, B.A. 1962, Amherst College	Radnor, Pa.
David Frank Wood, A.B. 1962, Brown University	Lyons, N.Y.
Frank James Zlatnik, B.A. 1962, Carleton College	Two Rivers, Wisc.

SUMMARY

Fourth Year	83
Third Year	88
Second Year	84
First Year	85
Total	340

REGISTER OF THE MEDICAL COLLEGE AND SLOAN-KETTERING STAFFS

Abel, Henrietta E.	Medicine	56
Abel, Robert R.	Medicine	55
Abrahams, Irving	Microbiology & Immunology	58
Adams, Daniel W.	Obstetrics & Gynecology	60
Adelson, Edward T.	Psychiatry	69
Advocate, Seymour	Medicine	55
Akbari, Ahkad	Surgery	76
Akselrad, Charles	Surgery	76
Aldana, Rudolfo	Medicine	56
Alexander, Edward	Physiology	67
Almy, Thomas P.	Medicine	52
Anderson, Arthur F.	Pediatrics (Emeritus)	6
Anderson, Arthur A.	Psychiatry	69
Ansevin, Krystyna	Anatomy	49
Antoville, Anthony A.	Medicine	55
Applebaum, Jacob	Surgery	76
Arce, A. Anthony	Psychiatry	70
Archibald, Kenneth C.	Medicine	53
Arditi, Lucian I.	Medicine	55
Armistead, George C.	Medicine	53
Armstrong, Roderick A.	Psychiatry	69
Arnold, William D.	Surgery	76
Aroskar, Janardan P.	Biochemistry	51
Artusio, Joseph F., Jr.	Surgery; Obstetrics & Gynecology	74; 59
Asch, Thane	Anatomy; Radiology	49; 73
Ashe, Barbara S.	Pediatrics	64
Ashman, Stuart	Psychiatry	69
Askari, Amir	Pharmacology	66
Atkinson, Sam C.	Medicine	53
Auld, Peter A. McF.	Pediatrics	64
Aull, Felice	Physiology	67
Austlid, Olav	Medicine	55
Avnet, Samuel	Surgery	76
Axelrod, D. Robert	Physiology	67
Bader, Genevieve	Sloan-Kettering (Prev. Med.)	92
Baer, Ralph A.	Medicine	55
Bagdi, Phyllis A.	Surgery	76
Bajek, Arnold J.	Radiology	73
Baker, Cecil C.	Medicine	56

Baker, William G.	Medicine	56
Baker, Ralph D.	Psychiatry	69
Balagura, Sulamita	Physiology	67
Balensweig, Howard D.	Surgery	76
Balis, M. Earl	Sloan-Kettering (Biochemistry)	89
Ball, Thomas L.	Obstetrics & Gynecology	59
Bang, Nils U.	Medicine	53
Baras, Irving	Surgery	75
Baragry, Richard A.	Surgery	76
Barber, Hugh R. K.	Obstetrics & Gynecology	59
Barclay, Ralph K.	Sloan-Kettering (Biology)	89
Barile, Raymond G.	Surgery	76
Barnes, Lloyd T.	Medicine	55
Barnes, William A.	Surgery	74
Barnett, Clifford R.	Public Health	71
Barondess, Jeremiah A.	Medicine	52
Barr, David P.	Medicine (Emeritus)	6
Barr, Nathaniel F.	Sloan-Kettering (Biophysics)	90
Barten, Harvey H.	Psychiatry	70
Basile, Neaf K.	Obstetrics & Gynecology	60
Bass, Richard R.	Pediatrics	64
Bauer, Charles H.	Pediatrics	64
Baumgartner, Leona	Pub. Health; Pediatrics	71; 64
Bawa, Sukhdev R.	Anatomy	49
Baxter, James E.	Psychiatry	69
Baylor, Curtis H.	Medicine	53
Bazar, Martha	Pediatrics	64
Beal, John M.	Surgery	74
Beaver, William C.	Pharmacology	66
Becker, Carl G.	Pathology	62
Becker, David V.	Medicine; Radiology	52; 73
Becker, E. Lovell	Medicine	52
Behrman, Stanley J.	Surgery	75
Beil, Arthur R., Jr.	Surgery	76
Beiles, Carl M.	Surgery	76
Belcher, Anne M.	Surgery	75
Bell, Bertrand M.	Medicine	55
Bendich, Aaron	Sloan-Kettering (Biochemistry)	89
Beneventi, Francis A.	Surgery	75
Benjamin, Bry	Medicine	55
Bennett, Dorothea	Anatomy	49
Benua, Richard S.	Medicine	53
Berenberg, Samuel R.	Pub. Health; Pediatrics	71; 64
Berg, John W.	Sloan-Kettering (Pathology)	91
Bergland, Richard M.	Surgery	76
Berkeley, Ruth P.	Medicine	55
Berle, Beatrice B.	Medicine; Pub. Health	53; 71
Bernstein, J. S.	Medicine	55
Berntsen, Carl A., Jr.	Medicine	53
Berrett, Arnold	Radiology	73

Biedler, June L.	Sloan-Kettering (Biology)	90
Biel, Leonard, Jr.	Surgery	76
Bienenstock, Harry	Medicine	55
Billo, Otto E.	Pediatrics	64
Bippart, Charles H.	Obstetrics & Gynecology	60
Birch, Ann McA.	Pediatrics	65
Birnbaum, Stanley J.	Obstetrics & Gynecology	59
Blitz, Marvin B.	Psychiatry	70
Block, Leon I.	Surgery	76
Blum, Morton	Medicine	56
Bodansky, Oscar	Sloan-Kettering (Biochemistry)	89
Bonsnes, Roy W.	Biochemistry; Obs. & Gyn.	51; 59
Booher, Robert J.	Surgery	77
Borenfreund, Ellen	Sloan-Kettering (Biochemistry)	89
Bortin, Aaron W.	Medicine	55
Bowden, Lemuel	Surgery	77
Boyan, Paul	Surgery	77
Boynton, Perry S., Jr.	Obstetrics & Gynecology	60
Brachfeld, Norman	Medicine	53
Bradlow, H. Leon	Sloan-Kettering (Biochemistry)	89
Bradley, Kent P.	Medicine	56
Branda, Luis A.	Biochemistry	51
Brander, Jerome H.	Obstetrics & Gynecology	60
Brasfield, Richard J.	Surgery	77
Braunstein, Paul W.	Surgery	75
Braveman, Warren S.	Medicine	55
Brayton, Robert G.	Medicine	56
Breslow, Esther	Biochemistry	51
Brethwaite, Samuel H., Jr.	Medicine	55
Brice, Mitchell	Surgery	76
Brilliant, Renee M.	Pediatrics	65
Brockunier, Alfred, Jr.	Obstetrics & Gynecology	59
Brodman, Keeve	Medicine	53
Bronner, Felix	Surgery	75
Bronstein, Eugene L.	Radiology	73
Bronstein, Howard	Medicine	56
Brooks, Dana C.	Anatomy	49
Brown, Edward O.	Obstetrics & Gynecology	60
Brown, George B.	Sloan-Kettering (Biochemistry)	89
Brown, H. Oliver, Jr.	Medicine	55
Brown, John Lyman	Medicine	55
Brown, Veronica	Medicine	55
Browne, Edward W., Jr.	Surgery	76
Browne-Mayers, Albert	Psychiatry	69
Brunschwig, Alexander	Surgery	77
Brush, A. Louise	Psychiatry	69
Buchanan, J. Robert	Medicine	55
Buchanan, Mary C.	Pediatrics	65
Buchman, Myron I.	Obstetrics & Gynecology	59
Bunn, Howard F.	Medicine	56

Burbank, Bernerd H.	Medicine	55
Burchenal, Joseph H.	Medicine	52
Burkhardt, Edward A.	Medicine	55
Burkholder, George V.	Surgery	76
Burkholder, Peter M.	Pathology	62
Burnett, Harry W.	Radiology	73
Burstein, Charles	Surgery	74
Butler, Katharine	Medicine	52
Cadavid, Luis G.	Medicine	56
Cahan, William G.	Surgery	77
Cahow, C. Elton, Jr.	Surgery	76
Calabrese, Anthony	Radiology	73
Callahan, Justin T.	Obstetrics & Gynecology	59
Camarda, Anthony	Surgery	76
Cameron, Donald J.	Medicine	55
Cameron, John Stewart	Medicine	56
Campbell, Milton F.	Medicine	56
Campbell, Rolla D., Jr.	Surgery	75
Cappuccino, James G.	Sloan-Kettering (Biology)	90
Carey, Thomas I.	Surgery	76
Carlson, Arthur S.	Pathology	63
Carlson, Eric T.	Psychiatry	69
Carmichael, D. Erskine	Obstetrics & Gynecology	60
Carpenter, Walter T., Jr.	Pediatrics	65
Carr, Henry A.	Medicine	53
Carrier, Thomas C.	Obstetrics & Gynecology	60
Carson, Robert S.	Psychiatry	70
Carver, James C., Jr.	Medicine	56
Carver, Susan T.	Medicine	55
Cash, William D.	Biochemistry	51
Cassell, Eric	Medicine; Pub. Health	55; 71
Catlin, Daniel	Surgery	77
Cattell, McKeen	Pharmacology (Emeritus)	6
Cavalieri, Liebe F.	Sloan-Kettering (Biochemistry)	89
Cecil, Russell L.	Medicine (Emeritus)	6
Celian, Charles I.	Psychiatry	69
Cerruli, Remo	Psychiatry	69
Chan, Wah-Yip	Biochemistry	51
Chapman, Antoine	Medicine	56
Chapman, George B.	Anatomy	49
Charash, Leon I.	Pediatrics	65
Chaves, Aaron D.	Medicine; Pub. Health	53; 71
Chilman, John H.	Psychiatry	70
Christenson, William N.	Medicine	53
Chu, Florence Chien-Hwa	Radiology	73
Chung, Stanley Mik	Surgery	76
Chynn, Kuo York	Radiology	73
Cipollaro, Anthony C.	Medicine (Dermatology)	52
Clapp, Paul	Surgery	77
Claremont, Hugh E.	Medicine	55

Clark, Donald G. C.	Surgery	77
Clark, Joel A., Jr.	Surgery	76
Clark, Melva A.	Medicine	55
Clarke, Robert L.	Surgery	76
Clarkson, Bayard D.	Medicine	53
Cleland, Roy, Jr.	Microbiology & Immunology	58
Clifton, Eugene E.	Surgery	74
Coats, Edward C.	Surgery	76
Cobb, John R.	Surgery (Orthopedics)	74
Cobb, Katharine	Pediatrics	65
Codington, John F.	Sloan-Kettering (Biochemistry)	89
Cohen, Burton D.	Medicine	55
Cohen, Eugene F.	Medicine	52
Cole, John T.	Obstetrics & Gynecology	59
Colker, Joel L.	Medicine	56
Collins, Harvey S.	Medicine	53
Conn, Julius, Jr.	Surgery	76
Connolly, C. Stephen	Medicine	56
Constantine, Elizabeth F.	Surgery	76
Conway, Herbert	Surgery	74
Cook, Gerald T.	Surgery	76
Cooper, Howard N.	Psychiatry	69
Cooper, William	Surgery (Orthopedics)	74
Cooper, William A.	Surgery	74
Corcos, Josue	Medicine	55
Corey, Karin R.	Sloan-Kettering (Biophysics)	90
Cormia, Frank E.	Medicine (Dermatology)	52
Cornell, George N.	Surgery	75
Cornell, Nelson W.	Surgery	74
Cortese, Armand	Surgery	76
Cox, Denton S.	Medicine	55
Craig, Robert L.	Obstetrics & Gynecology	59
Cramer, Jean Abel	Medicine	55
Craver, Lloyd F.	Medicine (Emeritus)	6
Crawford, David B., Jr.	Obstetrics & Gynecology	59
Crissey, Eleanor	Psychiatry	69
Cudmore, Ruth	Pediatrics	65
Cummins, F. Mitchell	Radiology	73
Cupiauoli, Richard A.	Medicine	55
Currarino, Guido	Radiology	73
Dalldorf, Frederick G.	Pathology	91
Dalton, A. J.	Sloan-Kettering (Biology)	90
Dangelmajer, Rudolph C.	Surgery	76
Daniel, William W.	Surgery	77
Daniels, Farrington	Medicine (Dermatology)	52
Daniels, Helen E.	Psychiatry	69
Dann, Margaret	Pediatrics	64
Dargeon, Harold W. K.	Pediatrics	64
Davidson, Mayer	Medicine	56

Davis, Jeff	Medicine	55
Davis, Marion	Medicine	55
Davis, E. William	Obstetrics & Gynecology	59
Day, Emerson	Sloan-Kettering (Prev. Med.)	92
de Alvarado, Lois	Psychiatry	69
Deal, C. Pinckney, Jr.	Medicine	56
Deans, Robert D.	Surgery	76
De Cosse, Jerome J.	Surgery	77
Deddish, Michael R.	Surgery	77
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SUMMARY OF MEDICAL COLLEGE STAFF

Full Professors	65
Associate Professors	147
Assistant Professors	266
Instructors, Assistants, etc.	642
Total	1120

SUMMARY OF SLOAN-KETTERING DIVISION STAFF

Full Professors	14
Associate Professors	21
Assistant Professors	25
Instructors, Assistants, etc.	19
Total	79

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